









The CALS Test Network MIL-D-28000 Class I Reference Illustration Packet Revision A

January 19, 1990

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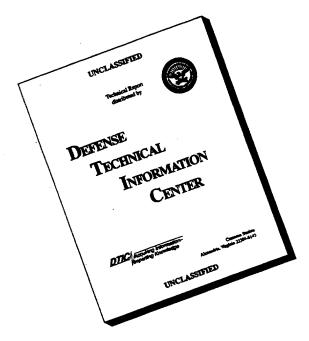


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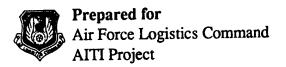
The CALS Test Network MIL-D-28000 Class I **Reference Illustration Packet Revision A**

January 19, 1990

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Preface

This CALS Test Network MIL-D-28000 Class I Reference Illustration Packet is a document which will have periodic updates. This will occur as the reference illustrations and their associated procedures, scripts, and files are corrected for oversights and/or are updated to new versions of the standards.

I acknowledge Ben Kassel of the CALS Navy Test Bed at the David Taylor Research Center for preparing the initial versions of the IENTITY test case and scripts. I also acknowledge McDonnell Aircraft Company for allowing the CALS Test Network to modify and use the LGTABLE illustration.

Please use the information contained in this packet at your own risk. Send recommendations for change or comments about the content to:

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Abstract

This CALS Test Network MIL-D-28000 Class I Reference Illustration Packet contains the information needed to conduct tests of the Technical Publication Subset, Class I, of the military specification MIL-D-28000 using IGES processors. The material is intended to demonstrate industry and government's use of MIL-D-28000 in accordance with the CALS initiative. The CALS Test Network (CTN) is the organization tasked with demonstrating this digital data interchange among industry and government and uses this packet during CTN testing. The packet is, furthermore, used by CTN members to conduct self-tests of their companies' abilities to utilize CALS data. The results derived from this testing will allow the CTN to suggest modifications to drafting techniques, vendors' IGES processors, the IGES specification, and most importantly, the MIL-D-28000 military specification.

The CALS Test Network MIL-D-28000 Class I Reference Illustration Packet

1.0 Introduction

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The DoD Computer-aided Acquisition and Logistic Support (CALS) Test Network (CTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A (1840A) and its companion suite of military specifications. The CTN is a DoD sponsored confederation of voluntary participants from industry and government, managed jointly by the technical staff at Air Force Logistics Command (AFLC) and Lawrence Livermore National Laboratory (LLNL). The objective of the CTN tests is to demonstrate and evaluate the interchange and functional use of digital technical information between industry and government using the CALS Standards.

The IENTITY and the LGTABLE reference illustrations described herein are used by the CALS Test Network during user application testing of IGES data. They, furthermore, are used by CTN members during self-tests of their digital data transfer abilities. IGES is the Initial Graphics Exchange Specification used for interchanging graphical data between dissimilar computer aided design (CAD) and technical publication systems. Specifically, these reference illustrations demonstrate the use of the IGES entities identified in the Technical Publication Subset, Class I, of the military specification, MIL-D-28000. In addition to demonstrating the use of this military specification and subset, these illustrations also allow the CTN to demonstrate the use of MIL-D-28000's parent document, MIL-STD-1840A. MIL-STD-1840A standardizes the delivery "envelope" used by organizations to exchange digital forms of technical information.

2.0 Content of the Reference Illustration Packet

The CTN MIL-D-28000 Class I Reference Illustration Packet you are currently reading contains a set of reference material. This packet contains the pieces of information needed to execute a test using a vendor's IGES processors. It contains:

- 1. Procedures to follow to conduct a pre-processor test; pre-processing is the translation from a graphics system to an IGES file.
- 2. A generation script (a set of instructions) to follow to create the IENTITY illustration on any graphics system.

- 3. Procedures to follow to conduct a post-processor test; post-processing is the translation from an IGES file to a graphics system.
- 4. The IGES files on a 9-track tape in MIL-STD-1840A format of both the IENTITY and LGTABLE reference illustrations to post-process into the graphics system.
- 5. Evaluation scripts (sets of questions) to complete after the IENTITY and LGTABLE illustrations have appeared on the screen after post-processing.
- 6. Plots of the IENTITY and LGTABLE illustrations.
- 7. A paper printout of the IGES files for both the IENTITY and LGTABLE illustrations.
- 8. Entity listing and counts for both the IENTITY and LGTABLE illustrations.

The above-mentioned pieces of information are contained in the attachments labeled A through K which follow this general introduction.

3.0 Content and Creation of the Reference Material

3.1 The IENTITY Illustration

The IENTITY illustration is comprised of all the geometric, annotation, and structure IGES entities identified in the MIL-D-28000 Class I subset. The illustration is organized such that the entities reside individually by entity and form number within one box of a grid. This box is then labeled to show which entity it should contain. All entities are model mode entities, two-dimensional, and contained on layer zero as MIL-D-28000 Class I requires. The drawing, containing a single view, is B-sized.

3.2 The LGTABLE Illustration

The LGTABLE graphic is an example of an actual technical publication illustration that completely complies to MIL-D-28000 Class I. It does not contain every entity identified in MIL-D-28000 Class I, however, it does contain a good sampling of the frequently used entities such as lines, circles, splines, text, and fill. Again, all entities are model mode, two-dimensional, and located on layer zero. The single view is contained on an A-sized drawing.

The LGTABLE illustration is included in this packet to be used during post-processor testing only. Although very useful as a sample illustration, pre-processor testing information was not deemed appropriate for LGTABLE because of the illustration's size and complexity.

3.3 Development of the IGES Files

The IENTITY and LGTABLE illustrations were drafted on a CAD system, then pre-processed into IGES files. Because the pre-processed IGES files did not completely conform to IGES Version 4.0 and MIL-D-28000, did not include all desired Class I entities, and included unwanted volunteer entities, the files were hand edited. During this hand editing, the criteria discussed in the "Guide to Developing IGES Test Cases" written by the IGES Test Case Subcommittee of the National IGES/PDES Committee was adhered to where ever possible. This hand editing produced IGES files that incorporate all MIL-D-28000 Class I entities and pass several IGES analyzers with no accountable errors. analyzers referred to are the IGES Model Testing System, the IGES Data Analysis Company Parser/Verify/View packages, and the Rosetta Technologies, Inc. PreVIEW software.

After the IGES files were thoroughly checked, MIL-STD-1840A headers were placed on the IGES files. Next, MIL-STD-1840A declaration files were written for each file. Lastly, all files were copied to a 9-track tape at MIL-STD-1840A-required formats.

3.4 The Scripts

This reference illustration packet contains two different sets of scripts. The generation script describes how to create the reference illustration on a graphics system during the pre-processor test. It is designed to be generic enough to allow illustration generation on any system. The evaluation scripts describe how to evaluate the graphical model that appears during a post-processor test. These scripts ask questions that try to address DoD's present requirements for a technical publication illustration digital transfer.

3.5 The Procedures

The CTN's test procedures contained herein discuss running tests on the pre-processors and post-processors separately. These procedures follow one proposed by the National IGES/PDES Organization's Testing Subcommittee. Other procedures were derived from available hardware and software resources and past experience.

Deviations and expansions from these procedures are encouraged as required by one's needs. An example of a deviation is to perform an end-to-end test with this reference data. These procedures do not address end-to-end testing because this type of testing is usually conducted with a user's actual illustrations, not reference illustrations. An end-to-end test with this packet's reference data could easily be conducted by, first,

following the pre-processor procedures and, second, sending that pre-processed IGES file through the post-processor procedures. As stated, deviations of this type are possible and should be used as experience and requirements dictate.

4.0 Conclusion

By following the procedures described in this CTN MIL-D-28000 Class I Reference Illustration Packet and by referring to the scripts, plots, and data lists also contained within, one can examine technical publication illustration digital transfers using IGES and MIL-D-28000. This packet does not validate a vendor's conformance to MIL-D-28000 Class I, but instead allows the CTN analysts and CTN members to demonstrate industry/government's use of the MIL-D-28000 specification in accordance with the CALS initiative.

Attachment A

Procedures for Executing the CTN Reference Illustration IGES Pre-processor Test

1. Follow the "Generation Script" to create the IENTITY reference illustration on your native graphics system to the system's best abilities. Record any problems encountered or deviations taken while following the generic script on the attached incident report sheets. Use additional sheets if necessary.

Try to create the entities on the graphics system so that the desired IGES entity is pre-processed into the IGES file. The scripts specify which entities are the desired entities. To accomplish this, we recommend that these scripts be followed in the presence of both a knowledgeable system operator and an experienced IGES person, both people preferably supplied by the graphics system vendor itself. This will insure the best transfer possible with a particular vendor's software.

Furthermore, although the graphics system may not support the "desired" IGES entity, try to match the appearance of the illustration using other entities allowed in MIL-D-28000 Class I.

- 2. Pre-process the illustration into the IGES format using any available switches to create a MIL-D-28000 Class I file. Place the required MIL-D-28000 Class I Start Section information into the file. Record any errors the system reports.
- Prepare a MIL-STD-1840A compliant 9-track tape containing the IENTITY IGES file and its corresponding declaration file. Be sure to include the proper MIL-STD-1840A header information to the IGES file and copy all files to the tape at the appropriate MIL-STD-1840A format. Record any difficulties experienced.
- If you are conducting a self-test, collect the tape and all incident reports from steps 1, 2, and 3 for evaluation. If you pre-arranged a formal CTN test and obtained CTN approval, send the tape and all incident reports from steps 1, 2, and 3 to:

CALS Test Network, IGES Testing Lawrence Livermore National Laboratory P.O. Box 808, 7000 East Ave., L-542 Livermore, CA 94550

Refer questions to Jill Farrell at (415) 423-6348.

- 5. Evaluate the data. We at the CALS Test Network will and anyone conducting a self-test should:
 - a. Check the tape for proper MIL-STD-1840A formats.
 - b. Check the tape for appropriate MIL-STD-1840A declaration information.
 - C. Check the IGES file for appropriate MIL-STD-1840A header information.
 - d. Examine the IGES file visually for format and content.
 - e. Parse and verify the IGES file using various IGES analyzers to check for IGES syntax errors and illegal MIL-D-28000 Class I constructs.
 - f. View the graphics the IGES file generated with IGES viewing packages.
 - g. Pinpoint any file, IGES processor, IGES standard, and/or military standard inefficiencies using the above software and personal knowledge.
 - h. Bring the findings to the appropriate parties for correction (either vendor, graphics system operator, IGES Committee, or the military standard's sponsor).
 - i. CTN will publicly publish results of CTN findings.

Attachment B

IENTITY Generation Script

I-ENTITY Generation Script

- Part) Create a part named "IENTITY".
- Drawing) If the CAD system allows for a separate drawing file within the part, create a B-sized drawing with its origin in the lower left-hand corner.

INSERT ALL ENTITIES WHILE WORKING IN THE TOP VIEW CONSTRUCTION PLANE. THIS CONSTRUCTION PLANE OR REQUIRED COORDINATE ORIENTATION IS SHOWN ON THE B-SIZED I-ENTITY PLOT. ALL MODEL COORDINATES (X,Y,Z) REFERRED TO IN THIS SCRIPT ARE BASED ON THIS COORDINATE ORIENTATION. ALL UNITS ARE INCHES.

CREATE THE FOLLOWING ENTITIES ON LEVEL ZERO AND IN THE DEFAULT COLOR OF THE CAD SYSTEM. INSERT ALL ENTITIES IN MODEL MODE. IN EVERY INSTANCE, TRY TO CREATE THE ENTITY ON THE CAD SYSTEM SUCH THAT UPON PRE-PROCESSING THE PART INTO IGES, THE DESIRED ENTITY AND FORM NUMBER APPEAR IN THE IGES FILE. THE DESIRED ENTITY AND FORM NUMBERS ARE THOSE NUMBERS ALONG THE LEFT-HAND MARGIN PRECEDING THE CREATION OR INSERTION COMMAND.

Grid lines)

Insert the following grid lines:

```
a)
     from (0.5, 10.5, 0.0)
                                to
                                     (0.5, 0.5, 0.0)
b)
           (2.5, 10.5, 0.0)
                                     (2.5, 0.5, 0.0)
C)
           (4.5, 10.5, 0.0)
                                     (4.5, 0.5, 0.0)
d)
           (6.5, 10.5, 0.0)
                                     (6.5, 0.5, 0.0)
           (8.5, 10.5, 0.0)
e)
                                     (8.5, 0.5, 0.0)
f)
           (10.5, 10.5, 0.0)
                                     (10.5, 0.5, 0.0)
g)
           (12.5, 10.5, 0.0)
                                     (12.5, 0.5, 0.0)
           (14.5, 10.5, 0.0)
h)
                                     (14.5, 0.5, 0.0)
i)
           (16.5, 10.5, 0.0)
                                     (16.5, 0.5, 0.0)
j)
           (0.5, 0.5, 0.0)
                                     (16.5, 0.5, 0.0)
           (0.5, 2.5, 0.0)
                                     (16.5, 2.5, 0.0)
k)
1)
                                     (16.5, 4.5, 0.0)
           (0.5, 4.5, 0.0)
m)
           (0.5, 6.5, 0.0)
                                     (16.5, 6.5, 0.0)
n)
           (0.5, 8.5, 0.0)
                                     (16.5, 8.5, 0.0)
           (0.5, 10.5, 0.0)
                                     (16.5, 10.5, 0.0)
```

- 100) Create a circular arc centered at (1.5,9.5,0.0) with a radius of 0.5 inches and traced out counterclockwise from 270 to 180 degrees.
- 102) a) Insert a line from (3.0,9.5,0.0) to (3.0,10.0,0.0).
 - b) Insert a line from (3.0,10.0,0.0) to (3.5,9.5,0.0).
 - c) Insert a cubic parametric spline through the points (3.5,9.5,0.0), (4.0,9.25,0.0), and (4.25,9.25,0.0).
 - d) Group the 2 lines and the spline together to form one entity. Use the composite curve entity (IGES entity 102) if your system supports it.

104 F0) a) Insert a conic with the general equation in standard form:

 $4x^2 + 16y^2 - 1 = 0$

- b) Rotate this conic 90 degrees clockwise and center it around (5.5,9.5,0.0). This conic is then an ellipse with a major axis of 1.0 inches (paralleling the vertical axis) and a minor axis of 0.5 inches.
- Insert an ellipse centered at (7.5,9.5,0.0) with a major axis of 1.0 inches and a minor of 0.5 inches. Position the ellipse so that the major axis parallels the horizontal axis. The general equation of this conic centered at (7.5,9.5,0.0) in standard form is:

 $4x^2 + 16y^2 - 1 = 0$

Insert a horizontal hyperbola centered at (9.75,9.5,0.0) such that only the left side is visible and that it sweeps 0.25 inches on either side of the axis of symmetry toward the negative x-direction. The hyperbola's transverse axis length is 0.5 inches and conjugate axis length is 0.25 inches. Refer to the plot for a pictorial description. The general equation of this conic rotated 180 degrees about its tip with its tip at (9.5,9.5,0.0) in standard form is:

 $16x^2 - 64y^2 - 1 = 0$

Insert a vertical parabola with a vertex of (11.5,9.5,0.0) and the focus point at (11.5,9.75,0.0). Extend the parabola into the positive y-direction to make it 0.25 inches tall. Refer to the plot for a pictorial description. The general equation of this conic rotated 90 degrees counterclockwise about (11.5,9.5,0.0) in standard form is:

 $y^2 - x = 0$

- 106 F11) a) Insert a circular arc centered at (13.5,9.25,0.0) with a radius of 0.5 and traced out counterclockwise from 0 to 180 degrees.
 - b) Transform the circular arc into a "linear planar curve" entity (IGES entity 106 Form 11) a curved string of many short straight segments.

106 F63) Create a rectangle or a "simple closed area" entity (106 Form 63) consisting of one entity between the points:

```
(15.0,9.25,0.0)
(15.0,10.0,0.0)
(16.0,10.0,0.0)
(16.0,9.25,0.0)
```

- 110) Create a line from (1.5,7.0,0.0) to (1.5,8.0,0.0).
- 112) Create a cubic parametric spline curve through the points:

```
(3.0,8.0,0.0)
(3.75,7.75,0.0)
(4.0,7.5,0.0)
(4.0,7.25,0.0)
(3.75,7.0,0.0)
(3.5,7.0,0.0)
(3.25,7.25,0.0)
(3.25,7.5,0.0)
(4.0,8.0,0.0)
```

124 F0) a) Create a temporary coordinate system (construction plane) defined by the transformation matrix shown below. This coordinate system corresponds to a construction plane rotated 90 degrees counterclockwise with its origin at (5.5,7.5,0.0).

```
0.0 1.0 0.0 5.5
-1.0 0.0 0.0 7.5
0.0 0.0 1.0 0.0
```

- b) Insert an arc centered at (0.0,0.0,0.0) swept between 0 and 180 degrees with a radius of 0.5 inches.
- c) Return to the original coordinate system.
- 126 F0) Insert a rational b-spline curve through the points: (7.0,7.0,0.0), (7.0,7.5,0.0), (7.0,8.0,0.0), (7.5,8.0,0.0), (8.0,8.0,0.0), (8.0,7.5,0.0), (8.0,7.0,0.0).
- 126 F1) Insert a rational b-spline curve through the points: (9.0,7.5,0.0), (10.0,8.0,0.0). This curve approximates a line.
- 126 F2) Insert a rational b-spline curve through the points: (12.0,7.5,0.0), (11.9045,7.79389,0.0), (11.6545,7.97553,0.0), (11.3455,7.97553,0.0), (11.0955,7.79389,0.0), (11.0,7.5,0.0). This curve approximates an arc.

- 126 F3) Insert a rational b-spline curve through the points: (14.0,7.5,0.0), (13.8528,7.67713,0.0), (13.6208,7.74259,0.0), (13.3792,7.74259,0.0), (13.1472,7.67713,0.0), (13.0,7.5,0.0). This curve approximates an elliptical arc.
- 126 F4) Insert a rational b-spline curve through the points: (16.0,7.75,0.0), (15.8231,7.60439,0.0), (15.6138,7.51295,0.0), (15.3862,7.51295,0.0), (15.1769,7.60439,0.0), (15.0,7.75,0.0). This curve approximates a parabolic arc.
- 126 F5) Insert a rational b-spline curve through the points:
 (1.25,5.71651,0.0), (1.36619,5.64544,0.0),
 (1.4722,5.56046,0.0), (1.47214,5.43958,0.0),
 (1.36622,5.35451,0.0), (1.25,5.28349,0.0). This curve approximates an hyperbolic arc.

FOR THE FOLLOWING GENERAL NOTE ENTITIES (212), USE THE STANDARD BLOCK (OR DEFAULT) TEXT FONT, A TEXT HEIGHT OF 0.125 INCHES, AND A TEXT WIDTH OF 0.1 INCHES. SELECT THE TEXT ORIGIN (OF THE FIRST TEXT LINE) BOTTOM-LEFT-JUSTIFIED UNLESS OTHERWISE STATED.

- 212 F0) a) Insert the text string "SIMPLE" horizontally at (3.0,5.625,0.0).
 - b) Insert the text string "SIMPLE" vertically at (4.0,6.0,0.0). Change the text slant 30 degrees clockwise from the vertical axis. Change the text width to 0.147 inches for this text string.
- Insert the text "DUAL" and "STACK" as one text string such that the words are both left justified and the second word is displayed below the first. Place the origin of the text at (5.0,5.625,0.0).
- 212 F2) a) Insert the text "IMBEDDED" with the origin of the text string at (7.0,5.625,0.0).
 - b) Change the font of the middle three letters,
 "BED", of the text string to the IGES Font 1002.
 This will change the letters "BED" to the symbols
- 212 F3) Insert the text string "SSUPER" such that the origin is at (9.0,5.625,0.0) and the word "SUPER" is a superscript of "S".
- 212 F4) Insert the text string "SSUB" such that the origin is at (11.0,5.625,0.0) and the word "SUB" is a subscript of "S".

- 212 F5) Insert the text "S", "SUPER", and "SUB" as one text string such that the origin is at (13.0,5.625,0.0) and the word "SUPER" is a superscript of "S" and "SUB" is a subscript of "S".
- 212 F6) Insert the text "M", "STACK", and "LEFT" as one multilined text string such that the origin of the text string is at (15.0,5.75,0.0) and all words are leftjustified to a common margin.
- Insert the text "M", "STACK", and "CENTER" as one multi-lined text string that is bottom-center-justified with the origin at (1.5,3.75,0.0).
- Insert the text "M", "STACK", and "RIGHT" as one multilined text string that is bottom-right-justified with the origin at (4.0,3.75,0.0).
- 212 F100) Insert a multi-lined text string that is bottom-left-justified with the origin at (5.0,3.5625,0.0) as follows:

FRAC S ----TION

There are two spaces between the whole number part and the fractional part. The second string "FRAC" is a superscript of the first string "S", the third string "TION" is a subscript of the first string, and "---" is the fourth string.

212 F101) Insert a multi-lined text string with the origin of the first string at (7.0,3.8125,0.0) as follows:

DUAL ---

STACK ---TOM

There are two spaces between the whole number part and the fractional part. The second string "TO" is a superscript of the first string "DUAL", the third string "P" is a subscript of the first string, and "---" is the fourth string. The mixed numeral expression is positioned such that the fifth string "STACK" is displayed below the first string. The sixth string "BOT" is a superscript of the fifth string, and the seventh string is a subscript of the fifth string, and "----" is the eighth string.

212 F102) Insert a multi-lined text string with the origin at (8.65625,3.5625,0.0) as follows:

There are two spaces between the whole number part and the fractional part. The second string "BED" is a superscript of the first string "IM", the third string "DED" is a subscript of the first string, and "----" is the fourth string. The fifth string " = " is a special character "i" using the IGES Font 1002. The mixed numeral is positioned such that the sixth string "FR" is displayed two spaces to the right of the fifth string. The seventh string "ACT" is a superscript of the fifth string, and the eighth string "ION" is a subscript of the fifth string, and "----" is the ninth string.

212 F105) Insert a multi-lined text string with the origin at (10.625,3.625,0.0) as follows:

There are two spaces between the whole number part and the fractional part. The second string "SUP" is a superscript of the first string "FR", the third string "SUB" is a subscript of the first string, and "----" is the fourth string. The second mixed numeral is a superscript of the first, and consists of the following strings: The sixth string "O" is a superscript of the fifth string "T", and the seventh string "P" is a subscript of the fifth string, and "---" is the eighth string. The third mixed numeral is a subscript of the first, and consists of the following strings: The tenth string "TT" is a superscript of the ninth string "BO", the eleventh string "OM" is a subscript of the ninth string, and the twelfth string is "---"

230) a) Insert four lines from:

```
(13.0,3.0,0.0) to (14.0,3.0,0.0)
(14.0,3.0,0.0) (14.0,4.0,0.0)
(14.0,4.0,0.0) (13.0,4.0,0.0)
(13.0,4.0,0.0) (13.0,3.0,0.0).
```

- b) Utilize the "sectioned area entity" (230) to crosshatch between the lines. The fill should be solid parallel line segments from section edge to edge. They should be angled 45 degrees counterclockwise from the x-axis and spaced 0.2 inches apart.
- 406 F18) Insert the text "SPACING" with its bottom-leftjustified origin at (14.8,3.5,0.0). Each character shall be 0.125 high and 0.1 wide, the spacing between each character shall be 0.1. This is 80 percent of the character height.
- 308) Create a subfigure named "PERSON" of a shaped figure composed of five lines from:

```
(-0.125,0.0,0.0) to (0.0,0.25,0.0)
(0.0,0.25,0.0) (0.125,0.0,0.0)
(0.0,0.25,0.0) (0.0,0.4375,0.0)
(0.0,0.375,0.0) (0.09375,0.28125,0.0)
(0.0,0.375,0.0) (-0.09375,0.28125,0.0)
```

and a circle of radius 0.0625 centered at (0.0,0.5,0.0).

- Insert the subfigure "PERSON" into the IENTITY model at the model location (1.5,1.5,0.0).
- Insert a rectangular array subfigure of "PERSON" consisting of 2 columns and 2 rows. The bottom left corner of the array is at (3.0,1.0,0.0). The horizontal distance between columns is 1.0 and the vertical distance between rows is 0.75.
- Insert a circular array subfigure of "PERSON" consisting of 3 instances centered at (5.5,1.5,0.0). The first instance is at a radius of 0.5 and an angle of 30 degrees, the other two instances are at an incremental angle of 120 degrees.

Title block) Insert the title block "CALS TEST NETWORK MIL-D-28000 CLASS I REFERENCE DRAWING I-ENTITY".

This multi-lined text should be bottom-center-justified with the text origin at (15.5,1.75,0.0). The text height and width should both be 0.09 inches.

Incident Report

Attachment C

Procedures for Executing the CTN Reference Illustration IGES Post-processor Test

Procedures for Executing the CTN Reference Illustration IGES Post-processor Test.

- 1. Receive a 9-track, MIL-STD-1840A formatted tape from the CALS Test Network containing both the IENTITY and LGTABLE IGES files in MIL-D-28000 Class I format.
- 2. Read the MIL-STD-1840A declaration information and load the IGES files onto your graphics system storage. The file names are shown in the 1840A declaration files and header fields.
- 3. Read and then strip the MIL-STD-1840A headers from the IGES files.
- Post-process the IGES files into your graphics system, noting all errors the system reports.
- 5. Inspect the resulting graphics and answer the questions listed in the evaluation scripts. If you answer "no" to any of the questions, please explain why on the incident report sheets which follow the script. Attach additional sheets if necessary.
- 6. Generate a hard copy plot of each illustration.
- 7. If you are conducting a self-test, collect the evaluation scripts, plots, and any incident reports for evaluation. If you pre-arranged a formal CTN test and obtained CTN approval, send the completed evaluation scripts, plots, and any incident reports to:

CALS Test Network, IGES Testing Lawrence Livermore National Laboratory P.O. Box 808, 7000 East Ave., L-542 Livermore, CA 94550

Refer questions to Jill Farrell at (415) 423-6348.

- 8. Evaluate the data. We at the CALS Test Network will and anyone conducting a self-test should:
 - a. Examine the incident reports, plots, and evaluation scripts.
 - b. Pinpoint processor, IGES standard, and/or military standard inefficiencies.
 - c. Bring the findings to the appropriate parties for correction (either vendor, graphics system operator, IGES Committee, or the military standard's sponsor).
 - d. CTN will publicly publish results of CTN findings.

Attachment D

IENTITY Evaluation Script

IENTITY Evaluation Script

Answer the following questions:

100)	_ a) _ b) _ c)	Is the circular arc centered at (1.5,9.5,0.0)? Is the arc radius 0.5 inches? Is the arc traced out from 270 to 180 degrees counterclockwise?
102)	_ a) _ b) _ c) _ d) _ e)	Is the composite curve made up of 2 lines and a spline? Does one line extend from (3.0,9.5,0.0) to (3.0,10.0,0.0)? Does the second line extend from (3.0,10.0,0.0) to (3.5,9.5,0.0)? Does the spline curve between the end points (3.5,9.5,0.0) and (4.25,9.25,0.0)? Does the composite curve behave as a single entity (selectable by one touch)?
	Form _ a) _ b) _ c) _ d)	Is the general conic arc an ellipse centered at (5.5,9.5,0.0)? Is the major axis 1.0 inches? Is the minor axis 0.5 inches?
	Form a) b) c) d)	Is the ellipse centered at (7.5,9.5,0.0)? Is the major axis 1.0 inches? Is the minor axis 0.5 inches?
104	Form a) b) c) d)	Is the hyperbola a horizontal hyperbola (shaped like a backwards "C")? Is the right most part of the hyperbola at (9.5,9.5,0.0)? Do the ends of the hyperbola extend toward the negative x-direction 0.25 inches?

104 Form	
a:)	Is the parabola a vertical parabola (shaped like a wide "U")?
b)	Is the parabola's vertex (lowest point) at (11.5,9.5,0.0)?
c)	Do the ends of the parabola extend 0.25 inches into the positive y-direction?
d)	
106 Form	
a)	Does the linear planar curve look like a circular arc of radius 0.5 inches, centered at (13.5,9.25,0.0) and traced out from 0 to 180 degrees counterclockwise?
b)	Is the linear planar curve made up of short straight segments combined to form a single entity?
106 Form	63)
a)	Is a rectangle present between the points (15,9.25,0.0), (15.0,10.0,0.0), (16.0,10.0,0.0), and (16,9.25,0)?
b)	
c)	
110)	
	Is a line present from (1.5,8.0,0.0) to (1.5,7.0,0.0)?
112) a)	Doog the goline stant at the second of
a)	(3.0,8.0,0.0), trace out toward the lower right, move toward the lower left to create a loop, and cross back over itself as it moves to the upper right near
b)	(4.0,8.0,0.0)? Does the parametric spline curve visually resemble the
	spline on the IENTITY plot?
124 Form	· ·
a) b)	
b)	Is the semi-circle open toward the right side, in other words, is it shaped like a "C"?
126 Form	•
a)	Does a rational b-spline curve pass through the points
	(7.0,7.0,0.0), (7.0,7.5,0.0), (7.0,8.0,0.0), (7.5,8.0,0.0), (8.0,8.0,0.0), (8.0,7.5,0.0),
hl	(8.0,7.0,0.0)?
b)	Does the rational b-spline curve visually resemble the curve on the TENTITY plot?

126	Form	1)
	_ a)	Does a rational b-spline curve pass through the points? (9.0,7.5,0.0), (10.0,8.0,0.0)? This curve approximates a line.
4	b)	Does the rational b-spline curve visually resemble the curve on the IENTITY plot?
126	Form	2)
	_ a)	Place the following points on the illustration: (12.0,7.5,0.0), (11.9045,7.79389,0.0), (11.6545,7.97553,0.0), (11.3455,7.97553,0.0), (11.0955,7.79389,0.0), (11.0,7.5,0.0). Does the rational b-spline curve pass through these points? This curve approximates an arc.
·	b)	Does the rational b-spline curve visually resemble the curve on the IENTITY plot?
126	Form a) b)	Place the following points on the illustration: (14.0,7.5,0.0), (13.8528,7.67713,0.0), (13.6208,7.74259,0.0), (13.3792,7.74259,0.0), (13.1472,7.67713,0.0), (13.0,7.5,0.0). Does the rational b-spline curve pass through these points? This curve approximates an elliptical arc.
126	Form a) b)	Place the following points on the illustration: (16.0,7.75,0.0), (15.8231,7.60439,0.0), (15.6138,7.51295,0.0), (15.3862,7.51295,0.0), (15.1769,7.60439,0.0), (15.0,7.75,0.0). Does the rational b-spline curve pass through these points? This curve approximates a parabolic arc.
126	Form a) b)	Place the following points on the illustration: (1.25,5.71651,0.0), (1.36619,5.64544,0.0), (1.4722,5.56046,0.0), (1.47214,5.43958,0.0), (1.36622,5.35451,0.0), (1.25,5.28349,0.0). Does the rational b-spline curve pass through these points? This curve approximates an hyperbolic arc.

1/2

212	Form	0)
	a)	Does the lower left corner of the horizontal text block
		"SIMPLE" reside at (3.0,5.625.0.0)?
	b)	Does a second text string also say "SIMPLE"?
	c)	Is this second text string vertical in orientation?
	d)	Are the letters of this second text string slanted 30
		degrees clockwise from the vertical axis?
	e)	Is the lower left corner of the letter "S" at
		(4.0,6.0,0.0)?
	f)	
	g)	Does the vertical text have a wider character width than the horizontal text?
212	Form	· ·
	a)	Does the text say "DUAL STACK"?
	b)	Is the lower left corner of the text "DUAL" at (5.0,5,625,0.0)?
	_ c)	Is the text "STACK" left justified directly below "DUAL"?
	d)	Is the text height 0.125 inches?
	e)	Does the entire text string act as a single entity?
212	Form	2)
		Do the first and second letters say "IM" and the sixth through eighth say "DED"?
	b)	Do the third through the fifth letters say " "?
******	_ c)	Is the lower left corner of the text block at
		(7.0,5.625,0.0)?
-	_ d)	Is the text height 0.125 inches?
	_ e)	Does the entire text string act as a single entity?
212	Form	
	_ a)	Are the words of the general note "S" and "SUPER"?
	(a	Is the word "SUPER" a superscript of the letter "s"?
	_ c)	Is the lower left corner of the letter "S" at
		(9.0,5.625,0.0)?
	_ a)	Is the text height 0.125 inches?
	_ e)	Does the entire text string act as a single entity?
212	Form	4)
	a)	Are the words of the general note "S" and "SUB"?
	_ b)	Is the word "SUB" a subscript of the letter "S"?
	_ c)	Is the lower left corner of the letter "S" at
		(11.0,5.625,0.0)?
	_ d)	Is the text height 0.125 inches?
	e)	Does the entire text string act as a single entity?

	a)	,
	_ b) _ c) _ d)	Is the word "SUPER" a superscript of "S"? Is the word "SUB" a subscript of "S"?
	_ e) _ f)	Is the text height 0.125 inches?
212	Form	
		Are the words of the general note "M", "STACK", and "LEFT"?
	b)	"STACK" then "LEFT")?
	_ c)	Are the words left justified to a common margin? Is the lower left corner of the letter "M" at (15.0,5.75,0.0)?
	_ e) _ f)	
212	Form	
	_ a)	Are the words of the general note "M", "STACK", and "CENTER"?
	_ b)	Are the words stacked one below the other?
	_ c)	Are the words center justified? Is the lower center location of the letter "M" at (1.5,3.75,0.0)?
	_ e) _ f)	Is the text height 0.125 inches?
212	Form	•
		Are the words of the general note "M", "STACK", and "RIGHT"?
	_ b)	Are the words stacked one below the other?
	_ d)	Are the words right justified to a common margin? Is the lower right corner of the letter "M" at (4.0,3.75,0.0)?
	_ e) _ f)	Is the text height 0.125 inches?
212	Form a)	100) Does the text appear as shown?
		FRAC S TION
	_ b)	Is the lower left corner of the letter "S" at (5.07,3.56,0.0)?
	c)	Does the entire text string act as a single entity?

212 Form a)	101) Does the text appear as shown?
	DUAL TO P
	STACK BOT TOM
b)	Is the lower left corner of "DUAL" at (7.0,3.81,0.0)? Does the entire text string act as a single entity?
212 Form :	102) Does the text appear as shown?
•	IM = FR DED ION
b)	Is the lower left corner of "IM" at (8.66,3.56,0.0)? Does the entire text string act as a single entity?
212 Form :	105) Does the text appear as shown?
	T P FR SUP SUB TT BO OM
b)	Is the lower left corner of "FR" at (10.625,3.625,0)? Does the entire text string act as a single entity?
230) a) b) c) d)	Do four lines form a square? Is the square crosshatched with solid parallel line segments from edge to edge? Is the crosshatching spacing 0.2 inches? Is the crosshatching angled at 45 degrees?

406 F1	L8)	
	a)	Does the text say "SPACING"?
	b)	Is the lower left corner of the text at (14.8,3.5,0.0)?
	c)	Is the text height 0.125 inches?
	d)	Is the text width 0.1 inches?
	e)	Is the spacing between each character 0.1 inches so
	f)	that the text is unusually widely spaced? Does the text end at approximately (16.1,3.5,0.0)?
308)		
	a)	Does a subfigure named "PERSON" exist?
	b)	Does the subfigure named "PERSON" consist of five lines
		from: (-0.125,0.0,0.0) to (0.0,0.25,0.0)
		(0.0,0.25,0.0) (0.125,0.0,0.0)
		(0.0,0.25,0.0) (0.0,0.4375,0.0)
		(0.0,0.375,0.0) (0.09375,0.28125,0.0)
		(0.0,0.375,0.0) $(-0.09375,0.28125,0.0)$
	c)	
	•	(0.0,0.5,0.0)?
408)		- Company of the control of the control of
	a)	Does an instance of "PERSON" appear with its origin at (1.5,1.5,0.0)? The origin of "PERSON" is a point
		exactly between the person's feet.
412)		
		s an instance of "PERSON" appear at:
	a)	(3.0,1.0,0.0)?
	(a)	(4.0,1.0,0.0)? (3.0,1.75,0.0)?
	97	(4.0,1.75,0.0)?
414)		es an instance of "PERSON" appear at:
		(5.933,1.75,0.0)? (5.067,1.75,0.0)?
	c)	(5.5,1.0,0.0)?
	•	
Grid		Are there 9 vertical grid lines?
-	. a) . h)	Are there 6 horizontal grid lines?
	•	
Entit	y Id	dentifiers)
		Is every entity identified by a name and an IGES number placed beneath the entity within the grid box?
Title	Blo	
		Does the title block in the lower right hand grid box
		say, "CALS TEST NETWORK
		MIL-D-28000
		CLASS I REFERENCE DRAWING
		I-ENTITY"?

Incident Report

Attachment E

LGTABLE Evaluation Notes

LGTABLE Evaluation Notes

Does the post-processed illustration visually resemble the plot of the LGTABLE illustration?

Things to look for:

- * Solid fill in circles in table
- * Solid fill in arrowheads
- * Dashed lines between circles in table
- * Properly justified text in tables
- Correct arc and conic orientations around airplane wheel
- * Relative line thicknesses
- * Text "CALS Test Network LGTABLE Reference Illustration" in lower right hand corner of illustration

Incident Report

Attachment F

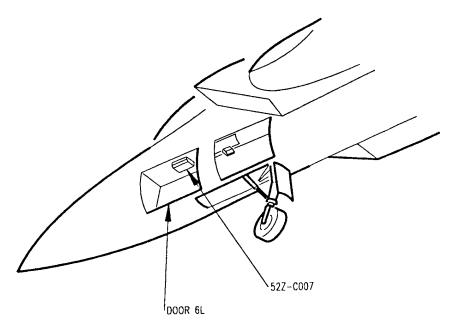
IENTITY B-sized Plot

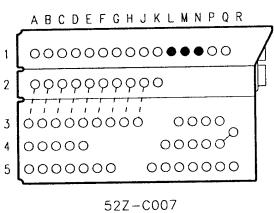
SIMPLE CLOSED AREA	RATIONAL B-SPLINE CURVE RATIONAL B-SPLINE CURVE ELLIPTICAL ARC 1126 FORM 3) PARABOLIC ARC 1126 FORM 4)	M STACK LEFT	NOTE - WULT! STACK LEFT JUST (212 FORM 6)	SPACING	INTERCHARACTER SPACING	CALS TEST NETWORK MIL-D-28000 RCL-ASS I REFERENCE DRAWING 1-ENTITY
L INE AR PLANAR CURVE	RATIONAL B-SPLINE CURVE	SSUPER	NOTE - SUPER/SUB SCRIPT (212 FORM B)		SECTIONED AREA	
COMIC ARC - PARABOLA	RATIONAL B-SPLINE CURVE	SsuB	NOTE - SUBSCRIPT	T - 0. FR SUP SUB BO 11.	NOTE - SUPER/SUB	
CONIC ARC - HYPERBOLA	RATIONAL B-SPLINE CURVE	SUPER	NOTE - SUPERSCRIPT (212 FORM 3)	IM BED ≠ FR ACT	NOTE - FONT/DOUBLE FRACTION (212 FORM 1021	·
C ON IC ARC - ELL IPSE	RATIONAL B-SPLINE CURVE	IM+4≥DED	NOTE - IMBEDDED FONT CHANGE (212 FORM 2)	DUAL - 10 P STACK 1001	NOTE - DUAL STACK FRACTION (212 FORM 101)	
CONIC ARC - GENERAL	TRANSF ORMATION MATRIX DV 1124 FORM 0)	DUAL STACK	NOTE - DUAL STACK	SFRAC TION	NOTE - SIMPLE Fraction (212 FORM 100)	CINCULAR SUBFIQURE
COMPOSITE CURVE 1102)	PARAMETRIC SPLINE CURPYE (112)	SIMPLE M	GENERAL NOTE - SIMPLE (212 FORM 01	STACK RIGHT	NOTE - MULTI STACK RIGHT JUST (ZIZ FORM B)	PRECTANGULAR SUBFIGURE PRECTANGULAR SUBFIGURE PRECTANGULAR SUBFIGURE PRECTANGULAR SUBFIGURE
CIRCULAR ARC 11001	LINE 1110)	\wedge	RATIONAL B-SPLINE CURVE HYPERBOLIC ARC (126 FORM 5)	M STACK CENTER	NOTE - MULTI STACK CENT JUST 1212 FORM 71	SINGE SUBFIGURE

		A					۰, ۰
SIMPLE CLOSED AREA	PATIONAL B-SPLINE CURVE RATIONAL B-SPLINE CURVE ELLIPTICAL ARC 1126 FORM 31 PAGABOLIC ARC 1126 FORM 41	M STACK LEFT	HOTE - MULTI STACK LEFT JUST (212 FORM 6)	SPACING	INTERCHARACTER SPACING	CALS TEST NETWORK MIL-D-28000 CLASS I REFERENCE ORAWING I-ENTITY	
LINEAR PLAMAR CURVE	PATIONAL B-SPLINE CURVE	SSUPER	NOTE - SUPER/SUB SCRIPT IZIZ FORM 51		SECTIONED AREA (230)		
CONIC ARC - PARABOLA	RATIONAL B-SPLINE CURVE	Ssub	NOTE - SUBSCRIPT	T - 9- FR SUP SUB - BO IT	RACTION (ZIZ FORM 105)		
CONIC ARC - HYPERBOLA	RATIONAL B-SPLINE CURVE	SUPER	NOTE - SUPERSCRIPT (212 FORM 31	IM BEO ≠ FR ACT	HOTE - FONT/DOUBLE FRACTION (212 FORM 102)		
CONIC ARC - ELL IPSE	RATIONAL B-SPLINE CURVE	IM+△≥OEO	NOTE - IMBEDDED FONT CHANGE (212 FORM 2)	DUAL -TO STACK BOT	NOTE - DUAL STACK FRACTION (212 FORM 101)		
CONIC ARE - GENERAL	TRANSFORMATION	DU AL STACK	NOTE - CUAL STACK	SFRAC TIÔN	NOTE - SIMPLE FRACTION (212 FORM 100)	CIRCULAR SUBFIGURE	INSTANCE (414)
COMPOSITE CURVE 1102)	PARAMETRIC SPLINE CURVE (112)	SIMPLE M	GENERAL NOTE - SIMPLE	M STACK RIGHT	NOTE - MULTI STACK RIGHT JUST (212 FORM 8)	A SUBFIGURE	INSTANCE (412)
CJRCULAR ARC 11001	(OH 1110)		RATIONAL B-SPLINE CURVE HYPERBOLIC ARC 1126 FORM SI	M STACK CENTER	NOTE - MULTI STACK CENT JUST (12 FORM 7)	O T DAILY	INSTANCE (408)

Attachment G

LGTABLE A-sized Plot





52Z-C007	ES	SSENTIAL CIRCUIT BREAKER PANEL I	NO. 1	(24-50-12)
REF DES	ZONE	NOMENCLATURE		BUS
41CBC033 41CBC034 42CBC005	L1 M1 N1	R MLG WOW PWR L MLG WOW PWR LDG GR POS IND	28VDC 28VDC 28VDC	ESS 28VDC ESS 28VDC ESS 28VDC

Attachment H

IENTITY IGES File Printout

CONFORMANCE:	Class	GES file I subset ember 19	Technica	s to the al Illus	MIL-D-28 crations	3000 Amen dated	dment	S S	1 2 3 4 5 6 7
ILLUSTRATION IDENTIFIER:	IENTIT	Y, Revis	ion A					S S S	8 9
DESCRIPTION:	Reference comprision MIL Test Not the te	s s s s s s s	10 11 12 13 14 15						
1H,,1H;,7HIEN 7HIENTITY,1.0 6HKASSEL,17HC	,1,4HIN	CH,8,0.0	16,13H89	HTEST,32 1031.080	,38,6,300 000,0.01	8,15, ,22.0,		G G D	1 2 3 1
0 0	1		1					D	2
Ŏ	2							D D	3 4
0	2		1					D	5
0	3		1					D	6
Ö	4		_					D D	7 8
0	-		1					D	ğ
0 0	5		1					D	10
Ŏ	6							D D	11 12
0	_	•	1 1	0	0	0	0	10001D	13
110 110	7 0	1 2	1	0	Ū	•		. D	14
110	8	1	1	0	0	0	0	10001D D	15 16
110	0	2	1 1	0 0	0	0	0	10001D	17
110 110	9 0	1 2	1	Ö	· ·	Ū		D	18
110	10	1	1	0	0	0	0	10001D D	19 20
110	0	2 1	1 1	0 0	0	0	0	10001D	21
110 110	11 0	2	1	Ö	v			. D	22
100	12	1	1	0	0	0	0	10001D D	23 24
100	0	2 1	1 0	0 0	0	0	0	201D	25
308 308	13 0	0	1	Ŏ		•	-	D	26
0	14							D D	27 28
0	16		1					D	29
0 0	15		1					D	30
Ö	16							D D	31 32
0	17		1					D	33
0 0	17		1					D	34
0	18							D D	35 36
0	10	•	1	0	0	0	0	1D	37
124 124	19 0	1 0	0 1	0	U	· ·	ŭ	D	38
0	20	1	0	0	0	0	0	1D	39
0	0	0	1	0	0	0	0	D 1D	40 41
0 0	21 0	1 0	0 1	0 0	U	U	J	D	42
0	22	1	0	0	0	0	0	10201D	43
0	0	0	1	0	0	0	0	D 10101D	44 45
0	23 0	1 0	0 1	0 0	U	J	V	D	46
0	24	•	_	-				D	47

Ò			1					D	48
0	25		1					D D	49 50
0	26							D	51 52
0 0	27		1					D D	53
0		_	1	•	•	•	•	D	54 5.5
410 410	28 0	1 0	0 1	0 0	0	0	0	20101D D	55 56
110	29	1	1	0	0	0	0	10001D	57
110 110	0 30	2 1	1 1	0 0	0	0	٠.0	D 10001D	58 59
110	0	2	1	0				D	60
124 124	31 0	1 0	0 1	0 0	0	0	•0	1D D	61 62
104	32	1	1	0	0	61	0	1D	63
104 124	0 33	2 1	1 0	2 0	0	0	©	D 1D	64 65
124	0	0	1	0				D	66
10 ² 4 104	34 0	1 2	1 1	0 3	0	65	0	1D D	67 68
124	35	1	0	0	0	0	0.	1D	69
124 104	0 36	0	1 1	0 0	0	69	0	D 1D	70 71
104	0	2	1	0				D	72
110 110	37 0	1 2	1 1	0 0	0	0	0	1D D	73 74
124	38	1	0	0	0	0	0	1D	75
124 104	0 39	0 1	1 1	0 0	0	75	0	D 1D	76 77
104 100	0 40	2 1	1 1	1 0	0	0	0	D 1D	78 79
100	0	2	1	0				D	80
110 110	41 0	1 2	1 1	0 0	0	0	0	10001D D	81 82
110	42	1	1	0	0	0	0	10001D	83
110 110	0 4 3	2 1	1 1	0 0	0	0	0	D 10001D	84 85
110	0	2	1	0				D	.86
110 110	44 0	2	1	0 0	0	0	0	10001D D	87 88
110 110	45 0	1	1 1 1 1	0 0	0	0	0	1D	89
110	46	1	1	0	0	0	0	D 1D	90 91
110 110	0 47	2	1 1	0 0	0	0	0	D 1D	92 93
110	0	2	1	0				D	94
110 110	48 0	1 2	1 1	0 0	0	0	0	1D D	95 96
110	49	1 2 1 2 1 2 1 2 1 2 1 2	1	0	0	0	0	1D	97
110 110	0 50	1	1 1	0 0	0	0	0	D 1D	98 99
110 110	0	2 1	1 1	0				D	100
110	51 0	2	1	0 0	0	0	0	1D D	101 102
110 110	52 0	2 1 2 1 2	1	0	0	0	0	1D	103
110	53	1	1 1	0 0	0	0	0	D 1D	104 105
110 110	0 54	2	1 1	0				D	106
110	0	1 2	. 1	0 0	0	0	0	1D D	107 108
110 110	55 0	1 2	1 1	0	0	0	0	1D	109
110	56	1 2	1	0 0	0	0	0	D 1D	110 111
110 110	0 57	2 1	1 1	0 0	0	0		D	112
	٠,	-	_	U	U	U	0	1D	113

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110 110 110 110 0 0 0 0 0 0 0 0 0 0 0 0	0 58 0 59 0 60 61 62 63 64 65 66 67	2 1 2 1 2	1 1 1 1 1 1 1 1 1 1	0 0 0 0	0	0	0		114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135
0	69	1	1	0	0	0	0	D 1D	136 137
106 106	0	2 1 2	1 8 1	11 0	0	0	0	D 1D	138 139
106 106	77 0	2	1	63 0	0	0	0	D 10001D	140 141
112 112	78 0	1 2	4	0	0	0	0	D 1D	142 143
112 112	82 0	1 2	1 14	0			0	D 1D	144 145
126 126	96 0	1 2	1 2	0 1	0	0		D	146
126 126	98 0	1 2	1 4	0 2	0	0	0	1D D	147 148
126	102	1	1	2 0	0	0	0	1D D	149 150
126 126	0 107	2 1	5 1	0	0	0	0	1D D	151 152
126 126	0 111	2 1	4 1	0 3 0	0	0	0	1D	153
126 126	0 113	2 1	2 1	4 0	0	0	0	D 1D	154 155
126	0 117	2	4 1	5	0	0	0	D 10201D	156 157
102 102	0	0	1	0	0	0	0	D 101D	158 159
230 230	118	1 2	1 1	0				D 101D	160 161
212 212	119 0	1 2	0 1	0 0	0	0	0	D	162
212 212	120 0	1 2	0 9	0 102	0	0	0	101D D	163 164
212	129	1	0	0	0	0	0	101D D	165 166
212 212	0 141	2 1	12 0	105	0	0	0	101D D	167 168
212 212	0 149	2 1	8 0	101 0	0	0	0	101D	169
212 212	0 153	2 1	4 0	100 0	0	0	0	D 101D	170 171
212 212	0 156	2 1	3 0	8 0	0	0	0	D 101D	172 173
212	0	2	3 0	7 0	0	0	0	D 101D	174 175
212 212	159 0	1 2	3	6			0	D 101D	176 177
212 212	162 0	1 2	0 3	0 5	0	0		D	178
212	165	1	0	0	0	0	0	101D	179

212	0	2	2	0		•	•	D	180
212 212	167 0	1 2	0 3	0 0	0	0	0	101D D	181 182
212 212	170 0	1 2	0 3	0 0	0	0	0	101D D	183 184
212 212	173 0	1 2	0	0	0	0	0	101D D	185 186
212	176	1	0	0	0	0	0	101D	187
212 212	0 179	2 1	3 0	0 0	0	0	0	D 101D	188 189
212 212	0 182	2 1	3 0	0	0	0	0	D 101D	190 191
212 212	0 185	2 1	3 0	0	0	0	0	D 101D	192 193
212 212	0	2	3	0				D	194
212	188 0	1 2	0 3	0 0	0	0	0	101D D	195 196
212 212	191 0	1 2	0 3	0	0	0	0	101D D	197 198
212 212	194 0	1 2	0 3	0 0	0	0	.0	101D D	199 200
212	197	1	0	0	0	0	0	101D	201
212 212	0 200	2 1	3 0	0 0	0	0	0	D 101D	202 203
212 212	0 202	2 1	2 0	0 0	0	0	0	D 101D	204 205
212 212	0 205	2	3	0	0	0		D	206
212	0	2	3	0			0	101D D	207 208
212 212	208 0	1 2	0 3	0 0	0	0	0	101D D	209 210
212 212	211 0	1 2	0 3	0 0	0	0	0	101D D	211 212
212 212	214 0	1 2	0 3	0 0	0	0	0	101D D	213 214
212 212	217 0	1 2	0	0	0	0	0	101D	215
212 212	220 0	1 2	0	Ö	0	0	0	D 101D	216 217
212	222	1	2	0 0	0	0	0	D 101D	218 219
212 212	0 224	2 1	2 0	0 0	0	0	0	D 101D	220 221
212 212	0 225	2 1	1 0	0 0	0	0	0	D 101D	222 223
212 212	0 228	2	3	0				D	224
212 212	0	2	3	0	0	0	0	101D D	225 226
212	231	1 2	0 3	0 0	0	0	0	101D D	227 228
212 212	234 0	1 2	0 3	0 0	0	0	0	101D D	229 230
212 212	237 0	1 2	0 3	0 0	0	0	0	101D D	231
212 212	240 0	1 2	0	0	0	0	0	101D	232 233
212 212	243 0	1	0	0	0	0	0	D 101D	234 235
212	246	2 1	3 0	0 0	0	0	0	D 101D	236 237
212 212	0 249	2 1	3 0	0 0	0	0	0	D 101D	238
212 212	0 252	2 1	3	0	0			D	239 240
212 212	0 258	2	6	0		0	0	101D D	241 242
212	0	2	0 3	0 2	0	0	0	101D D	243 244
212	261	1	0	0	0	0	0	101D	245

010	0	2	2	4				D	246
212 212	263	1	0	0	0	0	0	101D D	247 248
212	0	1 2	2	3 0	0	0	0	101D	249
212 212	265 0	1 2	0 2	1	V			D	250
212	267	1	2 0	0	0	0	0	101D D	251 252
212	0	2	3	0 0	0	0	0	101D	253
212 212	270 0	2	0 3	0	Ū			D	254
212	273	2 1 2 1 2 1 2	0	0	0	0	0	101D D	255 256
212	0		3 0	0 0	0	0	0	101D	257
212 212	276 0	1 2	3	ő				D	258
212	279	1	0	0	0	0	0	101D D	259 260
212 212	0 282	2 1 2	3 0	0 0	0	0	0	101D	261
212	0		3	0		0	0	D 1D	262 263
408	285	1 0	1 1	0 0	0	0	U	D	264
408 0	0 286	U		v				D	265
0			1					D D	266 267
0 0	287		1					D	268
0	288							D D	269 270
0	000		1					D	271
0 0	289		1					D	272
0	290		•					D D	273 274
0 0	291		1					D	275
Ö			1					D D	276 277
0	292		1					. D	278
0 102	293	1	1	0	0	0	0	201D	279
102	0	0	1	0 0	0	0	0	D 10201D	280 281
0 0	294 0	1 0	0 1	0	U	U		D	282
ő	295	1	0	0	0	0	0	10201D D	283 284
0	0 296	0 1	1 0	0 0	0	0	0	20001D	285
406 406	0	0	1	16				D	286
404	297	1	0	0	0	0	0	101D D	287 288
404 406	0 298	0 0	1 1	0 0	0	0	0	20001D	289
406	0	0	1	18		•	0	D 1D	290 291
412	299	1 0	1 1	0 0	0	0	U	D	292
412 414	0 300	1	1	0	0	0	0	1D	293
414	0	0	1	0	. 0	37	0	D 1D	294 295
100 100	301 0	1 2	1 1	0 0	. 0	31	U	D	296
0;	Ū	-	_	-				1P	1 2
0;								3P 5P	3
0; 0;								7P	4
0;								9P	5
0;		0 0 0 05	0.0.					11P 13P	4 5 6 7
110,-0.125	25.0.0.0.0.	125,0.0,	0.0;					15P	8
110.0.0.0.	25,0.0,0.	0,0.4375	,0.0;	_				17P 19P	9 10
110,0.0,0.	375,0.0,0	.09375,0	.28125,0	0.0:				21P	11
100.0.0.0.	.0,0.5,0.0	625,0.5,	0.0625,0	.5;				23P	12
308,0,6HPE	ERSON, 6, 13	,15,17,1	9,21,23;					25P 27P	13 14
0;								29P	15
0;									

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16
                                                                            31P
0;
                                                                            33P
                                                                                    17
0;
                                                                                    18
                                                                            35P
0;
                                                                                    19
                                                                            37P
124,0.0,1.0,0.0,5.5,-1.0,0.0,0.0,7.5,0.0,0.0,1.0,0.0;
                                                                            39P
                                                                                    20
                                                                                    21
                                                                            41P
0;
                                                                                    22
                                                                            43P
0;
                                                                                    23
                                                                            45P
0;
                                                                                    24
                                                                            47P
0;
                                                                                    25
                                                                            49P
0;
                                                                                    26
                                                                            51P
0;
                                                                                    27
                                                                            53P
0;
                                                                                    28
                                                                            55P
410,5,1.0,0,0,0,0,0,0;
                                                                                    29
                                                                            57P
110,3.0,10.0,0.0,3.5,9.5,0.0;
                                                                            59P
                                                                                    30
110,3.0,9.5,0.0,3.0,10.0,0.0;
                                                                                    31
                                                                            61P
124,-1.0,0.0,0.0,9.75,0.0,-1.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                                    32
104,16.0,0.0,-64.0,0.0,0.0,-1.0,0.0,0.5,-0.216506,0.5,0.216506;
                                                                            63P
                                                                            65P
                                                                                    33
124/0.0,-1.0,0.0,11.5,1.0,0.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                                    34
                                                                            67P
104,0.0,0.0,1.0,-1.0,0.0,0.0,0.0,0.25,-0.5,0.25,0.5;
                                                                                    35
                                                                            69P
124,,0.0,-1.0,0.0,5.5,1.0,0.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                                     36
104,0.0625,0.0,0.25,0.0,0.0,-0.015625,0.0,0.0,-0.25,0.0,-0.25;
                                                                            71P
                                                                                    37
                                                                            73P
110,1.5,8.0,0.0,1.5,7.0,0.0;
                                                                                    3.8
124,1.0,0.0,0.0,7.5,0.0,1.0,0.0,9.5,0.0,0.0,1.0,0.0;
                                                                            75P
                                                                                    39
                                                                            77P
104,0.0625,0.0,0.25,0.0,0.0,-0.015625,0.0,0.5,0.0,0.5,0.0;
                                                                                    40
                                                                            79P
100,0.0,1.5,9.5,1.5,9.0,1.0,9.5;
                                                                                     41
                                                                            81P
110,13.0,3.0,0.0,13.0,4.0,0.0;
                                                                                    42
                                                                            83P
110,13.0,4.0,0.0,14.0,4.0,0.0;
                                                                            85P
                                                                                    43
110,14.0,4.0,0.0,14.0,3.0,0.0;
                                                                            87P
                                                                                    44
110,14.0,3.0,0.0,13.0,3.0,0.0;
                                                                            89P
                                                                                    45
110,0.5,0.5,0.0,16.5,0.5,0.0;
                                                                            91P
                                                                                    46
110,0.5,2.5,0.0,16.5,2.5,0.0;
                                                                            93P
                                                                                    47
110,0.5,4.5,0.0,16.5,4.5,0.0;
                                                                            95P
                                                                                    48
110,0.5,6.5,0.0,16.5,6.5,0.0;
                                                                            97P
                                                                                    49
110,0.5,8.5,0.0,16.5,8.5,0.0;
                                                                            99P
                                                                                    50
110,0.5,10.5,0.0,16.5,10.5,0.0;
                                                                           101P
                                                                                    51
110,0.5,0.5,0.0,0.5,10.5,0.0;
110,2.5,0.5,0.0,2.5,10.5,0.0;
                                                                           103P
                                                                                    52
                                                                                    53
110,4.5,0.5,0.0,4.5,10.5,0.0;
                                                                           105P
                                                                                    54
110,6.5,0.5,0.0,6.5,10.5,0.0;
                                                                           107P
110,8.5,0.5,0.0,8.5,10.5,0.0;
                                                                           109P
                                                                                    55
110,10.5,0.5,0.0,10.5,10.5,0.0;
                                                                                    56
                                                                           111P
110,12.5,0.5,0.0,12.5,10.5,0.0;
                                                                           113P
                                                                                    57
110,14.5,0.5,0.0,14.5,10.5,0.0;
                                                                           115P
                                                                                    58
110,16.5,0.5,0.0,16.5,10.5,0.0;
                                                                                    59
                                                                           117P
0;
                                                                                    60
                                                                           119P
0;
                                                                           121P
                                                                                    61
0;
                                                                                    62
                                                                           123P
0;
                                                                                    63
                                                                           125P
0;
                                                                                    64
                                                                           127P
0;
                                                                           129P
                                                                                    65
0;
                                                                           131P
                                                                                    66
0;
                                                                           133P
                                                                                    67
                                                                           135P
                                                                                    68
106,1,26,0.0,14.0,9.25,13.9961,9.3127,13.9843,9.3743,
                                                                           137P
                                                                                    69
13.9649,9.4341,13.9382,9.4909,13.9045,9.5439,
                                                                                    70
                                                                           137P
13.8645,9.5923,13.8187,9.6353,13.7679,9.6722,
                                                                                    71
                                                                           137P
13.7129,9.7024,13.6545,9.7255,13.5937,9.7411,
                                                                           137P
                                                                                    72
13.5314,9.749,13.4686,9.749,13.4063,9.7411,13.3455,
                                                                           137P
                                                                                    73
9.7255,13.2871,9.7024,13.2321,9.6722,13.1813,9.6353,
                                                                                    74
                                                                           137P
13.1355,9.5923,13.0955,9.5439,13.0618,9.4909,
                                                                                    75
                                                                          137P
13.0351, 9.4341, 13.0157, 9.3743, 13.0039, 9.3127, 13.0, 9.25;
                                                                           137P
                                                                                    76
106,1,5,0.0,15.0,10.0,16.0,10.0,16.0,9.25,15.0,9.25,15.0,10.0;
                                                                          139P
                                                                                    77
112,3,1,2,2,0.0,1.0,2.0,3.5,0.5625,0.0,-0.0625,9.5,-0.3125,
                                                                          141P
                                                                                    78
0.0, 0.0625, 0.0, 0.0, 0.0, 0.0, 4.0, 0.375, -0.1875, 0.0625,
                                                                                    79
                                                                          141P
9.25,-0.125,0.1875,-0.0625,0.0,0.0,0.0,0.0,4.25,0.1875,0.0,
                                                                          141P
                                                                                    80
                                                                                         4/
0.375,9.25,0.0625,0.0,-0.375,0.0,0.0,0.0,0.0;
                                                                          141P
                                                                                    81
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112,3,1,2,8,0.0,1.0,2.0,3.0,4.0,5.0,6.0,7.0,8.0,3.0,0.870858,
                                                                   143P
                                                                            83
                                                                   143P
0.0,-0.120858,8.0,-0.249075,0.0,0.0,0.0,0.0,
0.0,0.0,3.75,0.508284,-0.362575,0.10429,7.75,-0.251843,
                                                                            84
                                                                   143P
                                                                            85
                                                                   143P
0.0,0.0,0.0,0.0,0.0,0.0,4.0,0.0960054,
-0.0497036, -0.0463009, 7.5, -0.243556, 0.0110455, -0.0174891, 0.0,
                                                                            86
                                                                   143P
0.0, 0.0, 0.0, 4.0, -0.142304, -0.188606, 0.0809104, 7.25, -0.273932,
                                                                            87
                                                                   143P
                                                                            88
-0.0414219,0.065354,0.0,0.0,0.0,0.0,3.75,-0.276786,0.0541248,
                                                                   143P
                                                                            89
                                                                   143P
-0.0273387,7.0,-0.160714,0.15464,0.0,0.0,0.0,0.0,0.0,
                                                                            90
3.5,-0.250552,-0.0278912,0.0284429,7.0,0.16679,0.172863,
                                                                   143P
                                                                            91
-0.0896533,0.0,0.0,0.0,0.0,3.25,-0.221006,0.0574377,0.163568,
                                                                   143P
7.25,0.243557,-0.0960965,0.10254,0.0,0.0,0.0,0.0,3.25,0.384573,
                                                                            92
                                                                   143P
0.548141,-0.182714,7.5,0.358985,0.211525,-0.0705097,0.0,0.0,0.0,
                                                                            93
                                                                   143P
                                                                            94
                                                                   143P
0.0,4.0,0.932714,0.0,-1.09628,8.0,0.570505,
                                                                            95
                                                                   143P
0.0,-0.423058,0.0,0.0,0.0,0.0;
126,1,1,1,0,1,0,0.0,0.0,1.0,1.0,1.0,1.0,9.0,7.5,0.0,10.0,8.0,
                                                                            96
                                                                   145P
                                                                            97
                                                                   145P
0.0,0.0,1.0,0.0,0.0,1.0;
98
                                                                   147P
                                                                            99
                                                                    147P
1.0,1.0,1.0,1.0,1.0,1.0,12.0,7.5,0.0,12.0,7.8341,0.0,11.721,
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                                                                           100
                                                                    147P
                                                                           101
1.0,0.0,0.0,1.0;
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                                                                           102
                                                                    149P
6.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,7.0,7.0,7.0,0.0,7.01111,
                                                                    149P
                                                                           103
7.15385,0.0,7.03333,7.46154,0.0,6.86667,8.15385,0.0,7.5,7.92308,
                                                                    149P
                                                                           104
0.0,8.13333,8.15385,0.0,7.96667,7.46154,0.0,7.98889,7.15385,0.0,
                                                                    149P
                                                                           105
                                                                    149P
                                                                           106
8.0,7.0,0.0,0.0,6.0,0.0,0.0,1.0;
151P
                                                                           107
1.0,1.0,1.0,1.0,1.0,1.0,14.0,7.5,0.0,14.0,7.66705,0.0,13.721,
                                                                           108
                                                                    151P
                                                                           109
7.81647,0.0,13.279,7.81647,0.0,13.0,7.66705,0.0,13.0,7.5,0.0,
                                                                    151P
                                                                           110
                                                                    151P
0.0,1.0,0.0,0.0,1.0;
111
                                                                    153P
0.0,15.5,7.25,0.0,15.0,7.75,0.0,0.0,1.0,0.0,0.0,1.0;
                                                                    153P
                                                                           112
113
                                                                    155P
                                                                           114
1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.25,5.71651,0.0,1.49816,
                                                                    155P
5.57323,0.0,1.52537,5.52714,0.0,1.49104,5.50133,0.0,1.51981,
                                                                    155P
                                                                           115
5.4700,0.0,1.5040,5.4302,0.0,1.25,5.2835,0.0,0.0,1.0,0.0,0.0,1.;
                                                                           116
                                                                    155P
                                                                           117
                                                                    157P
102,4,81,83,85,87;
                                                                    159P
                                                                           118
230,157,1,13.7172,2.99,0.0,0.2,0.785385,0;
212,1,6,1.0,0.125,1,1.0461,4.71,0,1,4.0,6.0,0.0,6HSIMPLE;
                                                                    161P
                                                                           119
212,9,2,0.22,0.125,1,1.5708,0.0,0,0,8.65625,3.5625,0.0,2HIM,
                                                                           120
                                                                    163P
                                                                    163P
                                                                            121
3,0.35,0.125,1,1.5708,0.0,0,9.03125,3.65625,0.0,3HBED,
                                                                            122
3,0.34,0.125,1,1.5708,0.0,0,9.03125,3.46875,0.0,3HDED,
                                                                    163P
4,0.44,0.125,1,1.5708,0.0,0,0,8.96875,3.5625,0.0,4H----,
                                                                    163P
                                                                            123
1,0.1,0.125,1002,1.5708,0.0,0,9.53125,3.5625,0.0,1Hi,
                                                                            124
                                                                    163P
                                                                            125
                                                                    163P
2,0.24,0.125,1,1.5708,0.0,0,9.71875,3.5625,0.0,2HFR,
                                                                            126
3,0.35,0.125,1,1.5708,0.0,0,0,10.0938,3.65625,0.0,3HACT,
                                                                    163P
                                                                    163P
                                                                            127
3,0.32,0.125,1,1.5708,0.0,0,0,10.0938,3.46875,0.0,3HION,
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4,0.44,0.125,1,1.5708,0.0,0,0,10.0313,3.5625,0.0,4H----;
                                                                    163P
212,12,2,0.24,0.125,1,1.5708,0.0,0,0,10.625,3.625,0.0,2HFR,
                                                                            129
                                                                    165P
3,0.34,0.125,1,1.5708,0.0,0,0,11.0313,3.71875,0.0,3HSUP,
                                                                            130
                                                                    165P
3,0.35,0.125,1,1.5708,0.0,0,0,11.0313,3.53125,0.0,3HSUB,
                                                                            131
                                                                    165P
                                                                    165P
                                                                            132
4,0.44,0.125,1,1.5708,0.0,0,0,10.9688,3.625,0.0,4H----,
1,0.12,0.125,1,1.5708,0.0,0,0,11.4375,4.1875,0.0,1HT,
                                                                    165P
                                                                            133
                                                                            134
1,0.12,0.125,1,1.5708,0.0,0,0,11.8125,4.28125,0.0,1HO,
                                                                    165P
1,0.11,0.125,1,1.5708,0.0,0,0,11.8125,4.09375,0.0,1HP,
                                                                            135
                                                                    165P
                                                                            136
3,0.33,0.125,1,1.5708,0.0,0,0,11.6875,4.1875,0.0,3H---,
                                                                    165P
                                                                            137
2,0.24,0.125,1,1.5708,0.0,0,0,11.4375,3.0625,0.0,2HBO,
                                                                    165P
                                                                    165P
                                                                            138
2,0.24,0.125,1,1.5708,0.0,0,0,11.7813,3.15625,0.0,2HTT,
2,0.26,0.125,1,1.5708,0.0,0,0,11.7813,2.96875,0.0,2HOM,
                                                                    165P
                                                                            139
3,0.33,0.125,1,1.5708,0.0,0,0,11.75,3.0625,0.0,3H---;
                                                                            140
                                                                    165P
212,8,4,0.46,0.125,1,1.5708,0.0,0,0,7.0,3.8125,0.0,4HDUAL,
                                                                    167P
                                                                            141
                                                                    167P
                                                                            142
 2,0.24,0.125,1,1.5708,0.0,0,0,7.625,3.90625,0.0,2HTO,
                                                                    167P
                                                                            143
1,0.11,0.125,1,1.5708,0.0,0,0,7.6875,3.71875,0.0,1HP,
                                                                    167P
                                                                            144
 3,0.33,0.125,1,1.5708,0.0,0,0,7.5625,3.8125,0.0,3H---,
                                                                    167P
                                                                            145
 5,0.56,0.125,1,1.5708,0.0,0,0,7.0,3.25,0.0,5HSTACK,
                                                                    167P
                                                                            146
 3,0.36,0.125,1,1.5708,0.0,0,7.6875,3.34375,0.0,3HBOT,
                                                                    167P
 3,0.38,0.125,1,1.5708,0.0,0,7.6875,3.15625,0.0,3HTOM,
```

```
4,0.44,0.125,1,1.5708,0.0,0,0,7.65625,3.25,0.0,4H----;
                                                                             167P
                                                                                     148
                                                                             169P
                                                                                     149
212,4,1,0.1133,0.125,1,1.5708,0.0,0,0,5.0742,3.5625,0.0,1HS,
                                                                             169P
                                                                                     150
 4,0.47,0.125,1,1.5708,0.0,0,0,5.1875,3.65625,0.0,4HFRAC,
 4,0.44,0.125,1,1.5708,0.0,0,5.1875,3.46875,0.0,4HTION,
                                                                             169P
                                                                                     151
 4,0.44,0.125,1,1.5708,0.0,0,0,5.1875,3.5625,0.0,4H----;
                                                                             169P
                                                                                     152
 212,3,1,0.1162,0.125,1,1.5708,0.0,0,0,3.8833,3.75,0.0,1HM,5,
                                                                             171P
                                                                                     153
 0.5376, 0.125, 1, 1.5708, 0.0, 0, 0, 3.46, 3.5625, 0.0, 5HSTACK, 5, 0.5184,
                                                                             171P
                                                                                     154
 0.125,1,1.5708,0.0,0,0,3.48167,3.375,0.0,5HRIGHT;
                                                                             171P
                                                                                     155
212,3,1,0.1162,0.125,1,1.5708,0.0,0,0,1.44167,3.75,0.0,1HM,5,
                                                                             173P
                                                                                     156
 0.5376,0.125,1,1.5708,0.0,0,0,1.23,3.5625,0.0,5HSTACK,6,0.648,
                                                                             173P
                                                                                     157
 0.125,1,1.5708,0.0,0,0,1.1775,3.375,0.0,6HCENTER;
                                                                             173P
                                                                                     158
 212,3,1,0.1162,0.125,1,1.5708,0.0,0,0,15.0,5.75,0.0,1HM,5,
                                                                             175P
                                                                                     159
0.5376, 0.125, 1, 1.5708, 0.0, 0, 0, 15.0, 5.5625, 0.0, 5HSTACK, 4, 0.4224,
                                                                             175P
                                                                                     160
0.125,1,1.5708,0.0,0,0,15.0,5.375,0.0,4HLEFT;
                                                                             175P
                                                                                     161
212,3,1,0.1133,0.125,1,1.5708,0.0,0,0,13.0,5.625,0.0,1HS,5,
                                                                             177P
                                                                                     162
0.5568, 0.125, 1, 1.5708, 0.0, 0, 0, 13.1133, 5.71875, 0.0, 5HSUPER, 3,
                                                                             177P
                                                                                     163
0.343,0.125,1,1.5708,0.0,0,0,13.1133,5.53125,0.0,3HSUB;
                                                                             177P
                                                                                     164
212,2,14,1.099,0.07,1,1.5708,0.0,0,0,12.9505,2.74,0.0,14HSECTION
                                                                             179P
                                                                                     165
ED AREA, 5, 0.308, 0.07, 1, 1.5708, 0.0, 0, 0, 13.346, 2.635, 0.0, 5H(230);
                                                                             179P
                                                                                     166
212,2,16,1.26,0.07,1,1.5708,0.0,0,0,10.87,2.75,0.0,16HNOTE - SUP
                                                                             181P
                                                                                     167
ER/SUB, 23, 1.652, 0.07, 1, 1.5708, 0.0, 0, 0, 10.674, 2.645, 0.0, 23HFRACTI
                                                                             181P
                                                                                     168
ON (212 FORM 105);
                                                                             181P
                                                                                     169
 212,2,18,1.442,0.07,1,1.5708,0.0,0,0,8.779,2.75,0.0,18HNOTE - FO
                                                                             183P
                                                                                     170
NT/DOUBLE, 23, 1.645, 0.07, 1, 1.5708, 0.0, 0, 0, 8.6775, 2.645, 0.0, 23HFRA
                                                                             183P
                                                                                     171
CTION (212 FORM 102);
                                                                             183P
                                                                                     172
 212,2,17,1.316,0.07,1,1.5708,0.0,0,0,6.842,2.75,0.0,17HNOTE - DU
                                                                                     173
                                                                            185P
AL STACK, 23, 1.624, 0.07, 1, 1.5708, 0.0, 0, 0, 6.688, 2.645, 0.0, 23HFRACT
                                                                                     174
                                                                            185P
ION (212 FORM 101);
                                                                                     175
                                                                            185P
 212,2,13,1.015,0.07,1,1.5708,0.0,0,0,4.9925,2.75,0.0,13HNOTE - S
                                                                            187P
                                                                                     176
 IMPLE, 23, 1.652, 0.07, 1, 1.5708, 0.0, 0, 0, 4.674, 2.645, 0.0, 23HFRACTION
                                                                                     177
                                                                            187P
  (212 FORM 100);
                                                                                     178
                                                                            187P
212,2,18,1.4,0.07,1,1.5708,0.0,0,0,2.8,2.75,0.0,18HNOTE - MULTI
                                                                                     179
                                                                            189P
STACK, 23, 1.652, 0.07, 1, 1.5708, 0.0, 0, 0, 2.674, 2.645, 0.0, 23HRIGHT JU
                                                                            189P
                                                                                     180
ST (212 FORM 8);
                                                                            189P
                                                                                     181
212,2,18,1.4,0.07,1,1.5708,0.0,0,0.8,2.75,0.0,18HNOTE - MULTI
                                                                            191P
                                                                                     182
STACK, 22, 1.603, 0.07, 1, 1.5708, 0.0, 0, 0.698501, 2.645, 0.0, 22HCENT
                                                                            191P
                                                                                     183
JUST (212 FORM 7);
                                                                            191P
                                                                                     184
212,2,18,1.4,0.07,1,1.5708,0.0,0,0,14.8,4.75,0.0,18HNOTE - MULTI
                                                                            193P
                                                                                     185
 STACK, 22, 1.603, 0.07, 1, 1.5708, 0.0, 0, 0, 14.6985, 4.645, 0.0, 22HLEFT
                                                                            193P
                                                                                     186
JUST (212 FORM 6);
                                                                            193P
                                                                                     187
212,2,16,1.26,0.07,1,1.5708,0.0,0,0,12.87,4.75,0.0,16HNOTE - SUP
                                                                            195P
                                                                                     188
ER/SUB, 19, 1.351, 0.07, 1, 1.5708, 0.0, 0, 0, 12.8245, 4.645, 0.0, 19HSCRIP
                                                                            195P
                                                                                     189
T (212 FORM 5);
                                                                            195P
                                                                                     190
212,2,21,1.652,0.07,1,1.5708,0.0,0,0,2.674,4.75,0.0,21HGENERAL N
                                                                            197P
                                                                                     191
OTE - SIMPLE, 12, 0.826, 0.07, 1, 1.5708, 0.0, 0, 0, 3.087, 4.645, 0.0, 12H(
                                                                            197P
                                                                                     192
212 FORM 0);
                                                                            197P
                                                                                     193
212,2,14,1.141,0.07,1,1.5708,0.0,0,0,4.9295,6.75,0.0,14HTRANSFOR
                                                                            199P
                                                                                     194
MATION, 23, 1.617, 0.07, 1, 1.5708, 0.0, 0, 0, 4.6915, 6.645, 0.0, 23HMATRIX
                                                                            199P
                                                                                     195
 D=1 (124 \text{ FORM } 0);
                                                                            199P
                                                                                     196
212,2,17,1.33,0.07,1,1.5708,0.0,0,0,2.835,6.75,0.0,17HPARAMETRIC
                                                                            201P
                                                                                     197
 SPLINE, 11, 0.728, 0.07, 1, 1.5708, 0.0, 0, 0, 3.136, 6.645, 0.0, 11HCURVE
                                                                            201P
                                                                                     198
                                                                            201P
                                                                                     199
212,1,10,0.63,0.07,1,1.5708,0.0,0,0,1.185,6.75,0.0,10HLINE (110)
                                                                            203P
                                                                                     200
                                                                            203P
                                                                                     201
212,2,18,1.414,0.07,1,1.5708,0.0,0,0,14.793,8.75,0.0,18HSIMPLE C
                                                                            205P
                                                                                     202
LOSED AREA, 13, 0.917, 0.07, 1, 1.5708, 0.0, 0, 0, 15.0415, 8.645, 0.0, 13H(
                                                                            205P
                                                                                     203
106 FORM 63);
                                                                            205P
                                                                                     204
212,2,19,1.491,0.07,1,1.5708,0.0,0,0,12.7545,8.75,0.0,19HLINEAR
                                                                            207P
                                                                                    205
PLANAR CURVE, 13, 0.861, 0.07, 1, 1.5708, 0.0, 0, 0, 13.0695, 8.645, 0.0,
                                                                            207P
                                                                                    206
13H(106 FORM 11);
                                                                            207P
                                                                                    207
212,2,20,1.547,0.07,1,1.5708,0.0,0,0,10.7265,8.75,0.0,20HCONIC A
                                                                            209P
                                                                                    208
RC - PARABOLA, 12, 0.84, 0.07, 1, 1.5708, 0.0, 0, 0, 11.08, 8.645, 0.0, 12H(
                                                                            209P
                                                                                    209
104 FORM 3);
                                                                            209P
                                                                                    210
212,2,21,1.638,0.07,1,1.5708,0.0,0,0,8.681,8.75,0.0,21HCONIC ARC
                                                                            211P
                                                                                    211
 - HYPERBOLA, 12, 0.833, 0.07, 1, 1.5708, 0.0, 0, 0, 9.0835, 8.645, 0.0, 12H
                                                                            211P
                                                                                    212
(104 FORM 2);
                                                                            211P
                                                                                    213
```

```
212,2,19,1.449,0.07,1,1.5708,0.0,0,6.7755,8.75,0.0,19HCONIC AR
                                                                           213P
                                                                                    214
                                                                           213P
                                                                                    215
C - ELLIPSE, 12, 0.812, 0.07, 1, 1.5708, 0.0, 0, 0, 7.094, 8.645, 0.0, 12H(1
                                                                           213P
                                                                                    216
04 FORM 1);
212,2,19,1.477,0.07,1,1.5708,0.0,0,4.7615,8.75,0.0,19HCONIC AR
                                                                           215P
                                                                                    217
                                                                                    218
C - GENERAL, 12, 0.84, 0.07, 1, 1.5708, 0.0, 0, 0, 5.08, 8.645, 0.0, 12H(104
                                                                           215P
                                                                           215P
                                                                                    219
212,1,21,1.547,0.07,1,1.5708,0.0,0,0,2.7265,8.75,0.0,21HCOMPOSIT
                                                                           217P
                                                                                    220
                                                                                    221
                                                                           217P
E CURVE (102);
212,1,18,1.295,0.07,1,1.5708,0.0,0,0.8525,8.75,0.0,18HCIRCULAR
                                                                                    222
                                                                           219P
                                                                                    223
                                                                           219P
 ARC (100);
                                                                                    224
                                                                           221P
212,1,6,0.6188,0.125,1,1.5708,0.0,0,0,3.0,5.625,0.0,6HSIMPLE;
                                                                                    225
212,2,23,1.792,0.07,1,1.5708,0.0,0,6.604,6.75,0.0,23HRATIONAL
                                                                           223P
                                                                                    226
                                                                           223P
B-SPLINE CURVE, 12, 0.833, 0.07, 1, 1.5708, 0.0, 0, 0, 7.0835, 6.645, 0.0,
                                                                                    227
                                                                           223P
12H(126 FORM 0);
                                                                                    228
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,8.604,6.75,0.0,23HRATIONAL
                                                                            225P
                                                                                    229
B-SPLINE CURVE, 17, 1.176, 0.07, 1, 1.5708, 0.0, 0, 0, 8.912, 6.645, 0.0,
                                                                            225P
                                                                                    230
                                                                           225P
17HLINE (126 FORM 1);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,10.604,6.75,0.0,23HRATIONAL
                                                                                    231
                                                                           227P
                                                                                    232
                                                                           227P
 B-SPLINE CURVE, 25, 1.834, 0.07, 1, 1.5708, 0.0, 0, 0, 10.583, 6.645, 0.0,
                                                                            227P
                                                                                    233
25HCIRCULAR ARC (126 FORM 2);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,12.604,6.75,0.0,23HRATIONAL
                                                                                    234
                                                                           229P
                                                                            229P
                                                                                    235
 B-SPLINE CURVE, 27, 1.974, 0.07, 1, 1.5708, 0.0, 0, 0, 12.513, 6.645, 0.0,
                                                                           229P
                                                                                    236
27HELLIPTICAL ARC (126 FORM 3);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0,14.604,6.75,0.0,23HRATIONAL
                                                                            231P
                                                                                    237
 B-SPLINE CURVE, 26, 1.911, 0.07, 1, 1.5708, 0.0, 0, 0, 14.5445, 6.645,
                                                                            231P
                                                                                    238
                                                                                    239
                                                                            231P
0.0,26HPARABOLIC ARC (126 FORM 4);
212,2,23,1.792,0.07,1,1.5708,0.0,0,0.604002,4.75,0.0,23HRATION
                                                                                    240
                                                                            233P
                                                                            233P
                                                                                    241
AL B-SPLINE CURVE, 27, 2.002, 0.07, 1, 1.5708, 0.0, 0, 0, 0.499002, 4.645,
                                                                                    242
                                                                            233P
0.0,27HHYPERBOLIC ARC (126 FORM 5);
212,2,16,1.239,0.07,1,1.5708,0.0,0,0.8805,0.75,0.0,16HSINGLE S
                                                                                    243
                                                                            235P
                                                                                    244
UBFIGURE, 14, 1.068, 0.07, 1, 1.5708, 0.0, 0, 0, 0.946, 0.645, 0.0, 14HINSTA
                                                                            235P
                                                                                    245
                                                                            235P
NCE (408);
212,2,21,1.68,0.07,1,1.5708,0.0,0,0,2.66,0.75,0.0,21HRECTANGULAR
                                                                                    246
                                                                            237P
 SUBFIGURE, 14, 1.026, 0.07, 1, 1.5708, 0.0, 0, 0, 2.967, 0.645, 0.0, 14HINS
                                                                            237P
                                                                                    247
                                                                            237P
                                                                                    248
TANCE (412);
                                                                                    249
212,2,18,1.414,0.07,1,1.5708,0.0,0,0,4.793,0.75,0.0,18HCIRCULAR
                                                                            239P
SUBFIGURE, 14, 1.033, 0.07, 1, 1.5708, 0.0, 0, 0, 5.0335, 0.645, 0.0, 14HINS
                                                                            239P
                                                                                    250
                                                                            239P
                                                                                    251
TANCE (414);
                                                                            241P
                                                                                    252
212,5,17,1.746,0.09,1,1.5708,0.0,0,0,14.627,1.75,0.0,17HCALS TES
T NETWORK, 11, 1.098, 0.09, 1, 1.5708, 0.0, 0, 0, 14.951, 1.615, 0.0, 11HMIL
                                                                            241P
                                                                                    253
                                                                                    254
-D-28000,7,0.666,0.09,1,1.5708,0.0,0,0,15.167,1.48,0.0,7HCLASS I
                                                                            241P
,17,1.755,0.09,1,1.5708,0.0,0,0,14.6225,1.345,0.0,17HREFERENCE D
                                                                            241P
                                                                                    255
RAWING, 8, 0.783, 0.09, 1, 1.5708, 0.0, 0, 0, 15.1085, 1.21, 0.0, 8HI-ENTITY
                                                                            241P
                                                                                     256
                                                                            241P
                                                                                     257
212,3,2,0.2002,0.125,1,1.5708,0.0,0,0,7.0,5.625,0.0,2HIM,3,0.3,
                                                                            243P
                                                                                     258
                                                                            243P
                                                                                     259
0.125,1002,1.5708,0.0,0,0,7.2,5.625,0.0,3Hbed,3,0.2992,0.125,1,
                                                                            243P
                                                                                    260
1.5708,0.0,0,0,7.5,5.625,0.0,3HDED;
212,2,1,0.1133,0.125,1,1.5708,0.0,0,0,11.0,5.625,0.0,1HS,3,
                                                                            245P
                                                                                     261
0.343,0.125,1,1.5708,0.0,0,0,11.1133,5.53125,0.0,3HSUB;
                                                                            245P
                                                                                     262
212,2,1,0.1133,0.125,1,1.5708,0.0,0,0,9.0,5.625,0.0,1HS,5,
                                                                            247P
                                                                                     263
                                                                                     264
0.5568, 0.125, 1, 1.5708, 0.0, 0, 0, 9.1133, 5.71875, 0.0, 5HSUPER;
                                                                            247P
                                                                                     265
                                                                            249P
212,2,4,0.4324,0.125,1,1.5708,0.0,0,0,5.0,5.625,0.0,4HDUAL,5,
                                                                                     266
                                                                            249P
0.5376, 0.125, 1, 1.5708, 0.0, 0, 0, 5.0, 5.4375, 0.0, 5HSTACK;
                                                                                     267
212,2,16,1.246,0.07,1,1.5708,0.0,0,0,10.877,4.75,0.0,16HNOTE - S
                                                                            251P
                                                                                     268
UBSCRIPT, 12, 0.826, 0.07, 1, 1.5708, 0.0, 0, 0, 11.087, 4.645, 0.0, 12H(212
                                                                            251P
                                                                            251P
                                                                                     269
212,2,18,1.407,0.07,1,1.5708,0.0,0,0,8.7965,4.75,0.0,18HNOTE - S
                                                                            253P
                                                                                     270
                                                                                     271
                                                                            253P
UPERSCRIPT, 12, 0.826, 0.07, 1, 1.5708, 0.0, 0, 0, 9.087, 4.645, 0.0, 12H(21
                                                                                     272
                                                                            253P
2 FORM 3);
                                                                            255P
                                                                                     273
212,2,20,1.575,0.07,1,1.5708,0.0,0,0,6.7125,4.75,0.0,20HNOTE - I
MBEDDED FONT, 19, 1.365, 0.07, 1, 1.5708, 0.0, 0, 0, 6.8175, 4.645, 0.0, 19H
                                                                                     274
                                                                            255P
                                                                                     275
                                                                            255P
CHANGE (212 FORM 2);
212,2,17,1.316,0.07,1,1.5708,0.0,0,0,4.842,4.75,0.0,17HNOTE - DU
                                                                                     276
                                                                            257P
                                                                            257P
                                                                                     277
AL STACK, 12, 0.798, 0.07, 1, 1.5708, 0.0, 0, 0, 5.101, 4.645, 0.0, 12H(212)
                                                                            257P
                                                                                     278
FORM 1);
                                                                                     279 <sub>50</sub>
212,2,22,1.722,0.07,1,1.5708,0.0,0,14.639,2.75,0.0,22HINTERCHA
                                                                            259P
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RACTER SPACING, 13, 0.924, 0.07, 1, 1.5708, 0.0, 0, 0, 15.038, 2.645, 0.0,
                                                                              259P
                                                                                      280
13H(406 FORM 18);
                                                                                      281
                                                                              259P
212, 1, 7, 1.3, 0.125, 1, 1.5708, 0.0, 0, 0,
                                                                             261P
                                                                                      282
14.8,3.5,0.0,7HSPACING,
                                                                             261P
                                                                                      283
0,1,289;
                                                                             261P
                                                                                      284
408,25,1.5,1.5,0.0,1.0;
                                                                             263P
                                                                                      285
0;
                                                                             265P
                                                                                      286
0;
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                                                                             267P
0;
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                                                                             269P
0;
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                                                                             271P
0;
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0;
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                                                                                      291
0;
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102,3,59,57,141;
                                                                             279P
                                                                                      293
0;
                                                                             281P
                                                                                      294
0;
                                                                             283P
                                                                                      295
406,2,17.0,11.0;
                                                                                      296
                                                                             285P
404,1,55,0.0,0.0,0,0,1,285;
                                                                             287P
                                                                                      297
406,1,80.0;
                                                                                      298
                                                                             289P
412,25,1.0,3.0,1.0,0.0,2,2,1.0,0.75,0.0,0;
                                                                             291P
                                                                                      299
414,25,3,5.5,1.5,0.0,0.5,0.5236,2.0944,0;
                                                                             293P
                                                                                      300
100,0.0,0.0,0.0,-0.5,0.0,0.5,0.0;
                                                                             295P
                                                                                      301
S
      16G
                3D
                                301
                       296P
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Attachment I

LGTABLE IGES File Printout

CONFORMANCE:						al Illustration S t 1, 20 Dec. 1988. S	1 2
ILLUSTRATION IDENTIFIER:	the C	ALS Test	Network	Referen	ce Techni	S S S Illustration for S cal Publication. S mpany illustration. S S	3 4 5 6 7 8
1H,,1H;,7HLGT 7HLGTABLE,1.0 13H890707.090	,1,2HI	N,25,0.1, 0001,20.0),	4HTEST, 3	2,38,6,30		1 2 3
7HFARRELL, 17H	_	_	_	0	0	0 000020100D	4 1
410 410	1 0	0 0	0 1	0 0	0	OVIEW 1D	2
406	2	0	Ō	0	Ö	0 000020001D	3
406	ō	0	1	16	Ö	0 2D	4
404	3	Ö	0	0	0	0 000000101D	5
404	0	0	1	0	0	ODRAWING 3D	6
212	4	0	0	0	0	0 000000101D	7
212	0	0	2	0	0	0TX0044 4D	8
110	6	0	1	0	0	0 00000101D	9
110	0	0	2	0	0	OTX0044 5D	10
110	8	0	.1	0	0	0 000010101D	11
110	0	0	2	0	0	0TX0044 6D	12
110	10	0	1	0	0	0 000010101D	13
_{3.7} 110	0 -	0	2	0	0	0TX0044 7D	14
110	12	0	1	0	0	0 000010101D	15
110	0	0	2	0	0	0TX0044 8D 0 000000101D	16 17
212	14	0 0	0 2	0 0	0 0	000000101D 00TX0045 9D	18
212 110	0 16	-0	1	0	0	0 000000101D	19
110	0	0	2	0	ŏ	0TX0045 10D	20
110	18	ő	ī	Ö	Ŏ	0 000010101D	21
110	0	Ö	2	Ō	0	0TX0045 11D	22
110	20	0	1	0	0	0 000010101D	23
110	0	0	2	0	0	0TX0045 12D	24
110	22	0	1	0	0	0 000010101D	25
110	0	0	2	0	0	0TX0045 13D	26
110	24	0	1	. 0	0	0 00000001D	27
110	3	4	2	0	0	0LN0141 14D	28
110	26	0	1	0	0	0 00000001D 0LN0142 15D	29 30
110	3	0	2 1	0 0	0 0	0LN0142 15D 0 00000001D	31
110 110	28 2	0	2	0	Ö	0LN0143 16D	32
110	30	Ö	1	Ö	ŏ	0 00000001D	33
110	3	4	2	Ö	0	0LN0144 17D	34
110	32	0	1	0	0	0 00000001D	35
110	2	0	2	0	0	0LN0145 18D	36
110	34	0	1	0	0	0 00000001D	37
110	3	-4	2	0	0	0LN0146 19D 0 00000001D	38 39
110	36	0	1	0	0	0 000000001D 0LN0147 20D	40
110	4	7	2 1	0	0 0	0 00000001D	41
112	38	0 7	6	0	0	0PC0013 21D	42
112 112	4 44	ó	1	0	0	0 00000001D	43
112	4	7	5	0	Ö	0PC0014 22D	44
112	49	ó	1	ŏ	Ŏ	0 00000001D	45
112	4	7	6	Ŏ	Ö	0PC0015 23D	46
112	55	ó	1	ŏ	ŏ	0 00000001D	47
112	2	Ŏ	5	Ö	Ö	OPC0016 24D	48
112	60	Ö	1	0	0 4	0 00000001D	49
112	3	4	6	0	0 -	0PC0017 25D	50
112	66	0	1	0	0	0 00000001D	51
112	4	7	6	0	0	0PC0018 26D	52
112	72	0	1	0	0	0 00000001D	53
112	3	4	6	0	0	0PC0019 27D	54

112			_	_	•	^	0	00000001D	55
112		78	0	1	0	0	-		
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112			-		_		0PC0021		
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110		_	7	6	0		_		
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0 0 0 3 0 0 0 3 0 0 0 0MATRIX 43D 86 0 123 0 1 0 0 0 00000001D 87 0 2 0 3 0 0 0 0LC0007 44D 88 124 126 0 0 0 3 0 0 0MATRIX 45D 90 124 0 0 3 0 0 0MATRIX 45D 90 104 129 0 1 0 0 89 00000001D 91 104 3 4 3 0 0 0 0LC0008 46D 92 124 132 0 0 0 0 0 0 0MATRIX 47D 94 104 135 0 1 0 0 93 00000001D 95 104 4 7 3 0 0 0 0MATRIX 47D 94 104 135 0 1 0 0 93 00000001D 97 104 2 0 3 0 0 0LC0009 48D 96 112 141 0 1 0 0 89 00000001D 97 112 4 7 5 0 0 0 0LC0009 48D 96 112 141 0 1 0 0 0 0LC0000 99 112 4 7 5 0 0 0 0LC0000 99 112 4 7 5 0 0 0 0LC0010 49D 98 112 141 0 1 0 0 0 0LC0010 49D 98 112 141 0 1 1 0 0 0 0LC0010 49D 98 112 146 0 1 0 0 0 0LC0010 101 101 100 2 0 2 0 0 0LC0009 50D 100 101 101 100 2 0 2 0 0 0LC000000000000000000000000					Ö	0	0		
0 2 0 3 0 0 0 0LC0007 44D 88 124 126 0 0 0 0 0 0 0 0 00000001D 89 124 0 0 0 3 0 0 0MATRIX 45D 90 104 129 0 1 0 0 89 00000001D 91 104 3 4 3 0 0 0 0LC0008 46D 92 124 132 0 0 0 0 0 0MATRIX 47D 94 104 135 0 1 0 0 93 00000001D 95 104 4 7 3 0 0 0 0LC0009 48D 96 104 138 0 1 0 0 0LC0009 48D 96 104 138 0 1 0 0 89 00000001D 97 104 2 0 3 0 0 0LC0009 48D 96 104 138 0 1 0 0 89 00000001D 97 104 2 0 3 0 0 0LC0009 48D 96 112 141 0 1 0 0 0 97 112 4 7 5 0 0 0PC0023 50D 100 100 146 0 1 0 0 0 0PC0023 50D 100 100 146 0 1 0 0 0 0PC0023 50D 100 100 146 0 1 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 0CR0094 51D 102 110 150 0 1 0 0 0 0LN0158 52D 104 110 150 0 1 0 0 0 0LN0158 52D 104 110 150 0 1 0 0 0 0LN0159 53D 106 110 152 0 1 0 0 0 0LN0160 54D 108 110 154 0 1 0 0 0 0LN0160 54D 108 110 155 0 1 0 0 0 0LN0161 55D 110 110 2 0 2 0 2 0 0 0LN0161 55D 110 110 158 0 1 0 0 0 0LN0161 55D 110 110 158 0 1 0 0 0 0LN0162 56D 112 110 158 0 1 0 0 0 0LN0163 57D 114 110 150 0 1 0 0 0 0LN0164 58D 116 110 158 0 1 0 0 0 0LN0164 58D 116 110 158 0 1 0 0 0 0LN0164 58D 116 110 162 0 1 0 0 0 0LN0165 59D 118 110 164 0 1 0 0 0 0LN0165 59D 118 110 164 0 1 0 0 0 0LN0165 59D 118			0	3	0		_		
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124					0				
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104		-	_				=	00000001D	91
124 0 0 0 3 0 0 0 0MATRIX 47D 94 104 135 0 1 0 0 0 93 00000001D 95 104 4 7 3 0 0 0 0LC0009 48D 96 104 138 0 1 0 0 89 00000001D 97 104 2 0 3 0 0 0LC0010 49D 98 112 141 0 1 0 0 0 0 00000001D 99 112 4 7 5 0 0 0 0PC0023 50D 100 100 146 0 1 0 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 0 00000001D 103 110 4 7 2 0 0 0 0LN0158 52D 104 110 150 0 1 0 0 0 0 00000001D 105 110 2 0 2 0 2 0 0 0 0LN0159 53D 106 110 152 0 1 0 0 0 0LN0159 53D 106 110 154 0 1 0 0 0 0 00000001D 107 110 2 0 2 0 2 0 0 0 0LN0160 54D 108 110 154 0 1 0 0 0 0 00000001D 107 110 2 0 2 0 2 0 0 0 0LN0161 55D 110 110 156 0 1 0 0 0 00000001D 107 110 2 0 2 0 2 0 0 0 0LN0161 55D 110 110 158 0 1 0 0 0 00000001D 111 110 2 0 2 0 2 0 0 0 0LN0162 56D 112 110 158 0 1 0 0 0 0 00000001D 113 110 2 0 2 0 2 0 0 0 0LN0163 57D 114 110 160 0 1 0 0 0 00000001D 115 110 2 0 2 0 2 0 0 0 0LN0163 57D 114 110 160 0 1 0 0 0 00000001D 115 110 2 0 2 0 2 0 0 0 0LN0164 58D 116 110 162 0 1 0 0 0 00000001D 117 110 3 4 2 0 0 0 0 0LN0165 59D 118 110 164 0 1 0 0 0 0 000000001D 117	_		4		0	0	0LC0008		
104	124	132	0	0	0		-		
104	124	_	•		-				
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112 141 0 1 0 0 0 000000001D 99 112 4 7 5 0 0 0 0PC0023 50D 100 100 146 0 1 0 0 0 00000001D 101 100 2 0 2 0 0 0 0CR0094 51D 102 110 148 0 1 0 0 0 00000001D 103 110 4 7 2 0 0 0 0LN0158 52D 104 110 150 0 1 0 0 0 00000001D 105 110 2 0 2 0 0 0 0LN0159 53D 106 110 152 0 1 0 0 0 00000001D 107 110 2 0 2 0 0 0 0LN0160 54D 108 110 154 0 1 0 0 0 00000001D 109 110 2 0 2 0 0 0 0LN0161 55D 110 110 156 0 1 0 0 0 00000001D 111 110 2 0 2 0 0 0 0LN0162 56D 112 110 158 0 1 0 0 0 0 00000001D 113 110 2 0 2 0 0 0 0LN0163 57D 114 110 158 0 1 0 0 0 00000001D 113 110 2 0 2 0 0 0 0LN0164 58D 116 110 160 0 1 0 0 0 00000001D 117 110 3 4 2 0 0 0 0LN0165 59D 118 110 162 0 1 0 0 0 00000001D 117 110 3 4 2 0 0 0 0LN0165 59D 118 110 164 0 1 0 0 0 000000001D 117						_			
112 4 7 5 0 0 OPC0023 50D 100 100 146 0 1 0 0 0 000000001D 101 100 2 0 2 0 0 0CR0094 51D 102 110 148 0 1 0 0 000000001D 103 110 4 7 2 0 0 0LN0158 52D 104 110 150 0 1 0 0 0LN0158 52D 104 110 150 0 1 0 0 0LN0158 52D 104 110 150 0 1 0 0 0LN0158 52D 104 110 150 0 0 0 0LN0158 52D 104 110 152 0 1 0 0 0LN0169 53D 106 110 154<							_		
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110 4 7 2 0 0 OLN0158 52D 104 110 150 0 1 0 0 0 000000001D 105 110 2 0 2 0 0 0LN0159 53D 106 110 152 0 1 0 0 0 000000001D 107 110 2 0 2 0 0 0LN0160 54D 108 110 154 0 1 0 0 0LN0160 54D 108 110 154 0 1 0 0 0 000000001D 109 110 2 0 2 0 0 0LN0161 55D 110 110 156 0 1 0 0 0LN0162 56D 112 110 158 0 1 0 0 0 0000000001D 113 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>									
110 150 0 1 0 0 0 000000001D 105 110 2 0 2 0 0 0LN0159 53D 106 110 152 0 1 0 0 000000001D 107 110 2 0 2 0 0 0LN0160 54D 108 110 154 0 1 0 0 0LN0160 54D 108 110 154 0 1 0 0 0LN0160 54D 108 110 154 0 1 0 0 0LN0160 54D 108 110 156 0 1 0 0 0LN0161 55D 110 110 156 0 1 0 0 0LN0162 56D 112 110 158 0 1 0 0 0LN0163 57D 114 110<							-		
110 2 0 2 0 0 0LN0159 53D 106 110 152 0 1 0 0 000000001D 107 110 2 0 2 0 0 0LN0160 54D 108 110 154 0 1 0 0 000000001D 109 110 2 0 2 0 0 0LN0161 55D 110 110 156 0 1 0 0 000000001D 111 110 2 0 2 0 0 0LN0162 56D 112 110 158 0 1 0 0 0 000000001D 113 110 2 0 2 0 0 0LN0163 57D 114 110 160 0 1 0 0 0 000000001D 115 110 162 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>							_		
110 152 0 1 0 0 0 000000001D 107 110 2 0 2 0 0 0LN0160 54D 108 110 154 0 1 0 0 0 00000001D 109 110 2 0 2 0 0 0LN0161 55D 110 110 156 0 1 0 0 0 00000001D 111 110 2 0 2 0 0 0LN0162 56D 112 110 158 0 1 0 0 0 000000001D 113 110 2 0 2 0 0 0LN0163 57D 114 110 160 0 1 0 0 0LN0164 58D 116 110 162 0 1 0 0 0LN0165 59D 118 110 164 <t< td=""><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td></t<>					_				
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110 156 0 1 0 0 0 000000001D 111 110 2 0 2 0 0 0LN0162 56D 112 110 158 0 1 0 0 00000001D 113 110 2 0 2 0 0 0LN0163 57D 114 110 160 0 1 0 0 0 000000001D 115 110 2 0 2 0 0 0LN0164 58D 116 110 162 0 1 0 0 0LN0165 59D 118 110 164 0 1 0 0 0LN0165 59D 118		154	0		_				
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110 158 0 1 0 0 0 000000001D 113 110 2 0 2 0 0 0LN0163 57D 114 110 160 0 1 0 0 000000001D 115 110 2 0 2 0 0 0LN0164 58D 116 110 162 0 1 0 0 0 000000001D 117 110 3 4 2 0 0 0LN0165 59D 118 110 164 0 1 0 0 0000000001D 119									
110 2 0 2 0 0 0 LN0163 57D 114 110 160 0 1 0 0 0 00000001D 115 110 2 0 2 0 0 0 LN0164 58D 116 110 162 0 1 0 0 0 000000001D 117 110 3 4 2 0 0 0 LN0165 59D 118 110 164 0 1 0 0 0 000000001D 119									
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110 162 0 1 0 0 0 000000001D 117 110 3 4 2 0 0 0 0LN0165 59D 118 110 164 0 1 0 0 0 000000001D 119							•		
110 3 4 2 0 0 0LN0165 59D 118 110 164 0 1 0 0 0 00000001D 119			0	1	0	0	0	00000001D	117
		3							
110 3 4 2 0 0 0LN0166 60D 120							_		
	110	3	4	2	U	U	OTW0106	60D	120

110 110	166 3	0 4	1 2	0	0	0 0LN0167	000000001D 61D	121 122
110	168	0	1	Ŏ	Ö	0	00000001D	123
110 100	3 170	4 0	2 1	0 0	0 0	0LN0168 0	62D 000000001D	124 125
100	4	7	2	Ö	ő	0CR0095	63D	126
110	172	0	1	0	0	0	00000001D	127
110 110	4 174	7 0	2 1	0 0	0 0	0LN0169 0	64D 000000001D	128 129
110	4	7	2	0	0	0LN0170	65D	130
100 100	176 4	0 7	1 2	0 0	0 0	0 0CR0096	000000001D 66D	131 132
110	178	ó	1	ŏ	Ö	0	000000001D	133
110	4	7	2	0	0	0LN0171	67D 000000001D	134 135
110 110	180 2	0 0	1 2	0 0	0	0 0LN0172	68D	136
110	182	Ō	1	Ö	0	0	00000001D	137
110	2	0	2	0 0	0 0	0LN0173 0	69D 000000001D	138 139
110 110	184 2	0	1 2	0	0	0LN0174	70D	140
110	186	0	1	0	0	0	00000001D	141
110 110	2 188	0	2 1	0 0	0 0	0LN0175 0	71D 000000001D	142 143
110	3	4	2	Ö	0	0LN0176	72D	144
110	190	0	1	0	0	0	00000001D	145
110	3 192	4	2	0	0 0	0LN0177 0	73D 000000001D	146 147
110 110	2	0	1 2	0	0	0LN0178	74D	148
100	194	Ō	1	0	0	0	00000001D	149
100 110	2 196	0	2 1	0 0	0	0CR0097 0	75D 000000001D	150 151
110	3	4	2	Õ	Ö	0LN0179	76D	152
110	198	0	1	0	0	0	000000001D	153
110 124	3 200	4 0	2 0	0 0	0 0	0LN0180 0	77D 000000001D	154 155
124	0	Ö	3	0	Ō	OMATRIX	78D	156
104 104	203 2	0 0	1 4	0 0	0 0	155 0LC0011	00000001D 79D	157 158
110	207	0	1	0	0	0	000000001D	159
110	2	0	2	0	0	0LN0181	80D	160
110 110	209 2	0 0	1 2	0 0	0 0	0 0LN0182	000000001D 81D	161 162
110	211	ŏ	1	Ŏ	Ŏ	0	00000001D	163
110	3	4	2 1	0	0	0LN0183	82D 00000001D	164 165
110 110	213 .3	0 4	2	0 0	0 0	0 0LN0184	83D	166
110	215	0	1	0	0	0	00000001D	167
110 110	3 217	4 0	2 1	0 0	0 0	0LN0185 0	84D 00000001D	168 169
110	2	ŏ	2	0	Ö	0LN0186	85D	170
110	219	0	1	0	0	0	00000001D	171
110 100	2 221	0 0	2 1	0 0	0 0	0LN0187 0	86D 00000001D	172 173
100	2	0	2	0	0	0CR0098	87D	174
100	223	0	1 2	0	0	0 0CR0099	00000001D 88D	175 176
100 110	4 225	7 0	1	0 0	0 0	000099	000000001D	177
110	3	4	2	0	0	0LN0188	89D	178
110 110	227 3	0 4	1 2	0	0 0	0 0LN0189	00000001D 90D	179 180
110	229	0	1	0 0	0	010189	000000001D	181
110	2	0	2	0	0	0LN0190	91D	182
110 110	231 2	0 0	1 2	0 0	0 0	0 0LN0191	00000001D 92D	183 184
110	233	Ö	1	0	0	0	00000001D	185
110	2	0	2	0	0	0LN0192	93D	186 🔬

110	235	0	1	0	0	0	000000001D	187
110	3	4	2	Ö	Ö	0LN0193	94D	188
100	237	0	1	ŏ	Ö	0	00000001D	189
100	4	7	2	ŏ	Ö	0CR0100	95D	190
110	239	ó	1	Ŏ	Ö	0	000000001D	191
110	2	0	2	Ö	Ö	0LN0194	96D	192
	241	. 0	1	ő	ŏ	0	00000001D	193
112	4	7	6	Ö	Ö	0PC0024	97D	194
112	=	ó	1	Ö	Ö	0	00000001D	195
110	247	7	2	0	0	0LN0195	98D	196
110	4			0	0	0	000000001D	197
110	249	0	1 2	0	0	0LN0196	99D	198
110	4	7		0	0	0	000000001D	199
100	251	0	1	0	0	0CR0101	100D	200
100	2	0	2			0	000000001D	201
110	253	0	1	0	0	0LN0197	101D	202
110	4	7	2	0	0	01110197	000000001D	203
110	255	0	1	0	0	0LN0198	102D	203
110	4	7	2	0	0		000000001D	205
104	257	0	1	0	0	155 0LC0012	103D	206
104	4	7	3	U	0	_	000000001D	207
110	260	0	1	0	0	0	104D	207
110	4	7	2	0	0	0LN0199	000000001D	208
100	262	0	1	0	0	0		
100	4	7	2	0	0	0CR0102	105D	210 211
0	264	0	1	0	0	0	000000001D 106D	211
0	3	4	2	0	0	0LN0200	000000001D	213
110	266	0	1	0	0	0 0LN0201	107D	214
110	260	7	2 1	0	0 0	0110201	000000001D	215
110	268 4	0 7	2	0	0	0LN0202	108D	216
110 110	270	ó	1	0	0	0	000000001D	217
110	4	7	2	0	0	0LN0203	109D	218
100	272	ó	1	Ö	ŏ	0	000000001D	219
100	4	7	2	Ö	ŏ	0CR0103	110D	220
100	274	ó	1	Ŏ	Ö	0	00000001D	221
100	2	Ö	2	Ö	Ö	0CR0104	111D	222
110	276	0	1	0	0	0	000000001D	223
110	4	7	2	0	0	0LN0204	112D	224
100	278	0	1	0	0	0	000000001D	225
100	4	7	2	0	0	0CR0105	113D	226
100	280	0	1	0	0	0	00000001D	227
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100	282	0	1	0	0	0	00000001D	229
100	2	0	2	0	0	0CR0107	115D	230
110	284	0	1	0	0	0	00000001D	231
110	2	0	2	0	0	0LN0205	116D	232
110	286	0	1	0	0	0	00000001D	233
110	2	0	2	0	0	0LN0206	117D	234
110	288	0	1	0	0	0	00000001D	235
110	2	0	2	0	0	0LN0207	118D	236
110	290	0	1	0	0	0	00000001D	237
110	2	0	2	0	0	0LN0208	119D	238
110	292	0	1	0	0	0	00000001D	239
110 110	2 294	0	2	0	0	0LN0209	120D	240
110	4	7	1	0	0	0	00000001D	241
110	295	ó	1	0	0	0LN0210	121D	242
110	293 4	7	1	0	0	0	00000001D	243
110	296	ó	1	0	0	0LN0211	122D	244
110	2	0	1	0 0	0	0 01 NO 21 2	00000001D	245
110	297	0	1 1	0	0 0	0LN0212 0	123D 000000001D	246
110	2	0	1	0	0	0LN0213		247
110	298	0	1	0	0		124D	248
110	2	0	1	0	0	0 0LN0214	00000001D	249
110	299	0	1	0	0	0LN0214 0	125D 00000001D	250
110	2	0	1	0	0	0 0LN0215	126D	251 252
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110									
110	110	300	0	1	0 `	0	0	00000001D	253
110				ī			0LN0216	127D	254
110				1					
212			-	1	_	_			
212				ń	I		_		
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212 309				-			-		
212		-	-		Ī	_	_		
212		309	0	-			-		
212			0		0				
212	212	311	0	-	0	0	-		
212	212	0	0	2	0	0	0TX0050		
212	212	313	0	0	0	0	-		
10	212	0	0	2	0	0	0TX0051		
100	212	315	0	0	0.,	0			
110	212	0	0	6	۰0	0	0TX0052	135D	270
110	110	321	0	1	0	0	0	00000001D	271
212 322	110		7	1	0	0	0LN0218	136D	272
212			0	0	: 0	0	. 0	000000101D	273
212 328		_	Ξ	6					274
212			=	_		-			
212 334			_	6	_		-		
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212 340			I		Ī				
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100	110	350		1	0	_	-		
100	110		7	2	0		_		
110	100	352	0	1	0	0	_		
110	100	4	7	2	0	0	0CR0108		
110	110	354	0	1	0	0	•		
110	110	4	7	2	0	0	0LN0221		
110	110	356	0	1	0	0			
110	110	2	0	2	0	0	0LN0222		
110	110	358	0	1	0	0		00000001D	
110	110	2	0	2	0	0	0LN0223	147D	
110 2 0 2 0 0 OLN0224 148D 296 110 362 0 1 0 0 0 000000001D 297 110 2 0 2 0 0 OLN0225 149D 298 110 364 0 1 0 0 000000001D 299 110 2 0 2 0 0 OLN0226 150D 300 110 366 0 1 0 0 0 00000001D 301 110 4 7 2 0 0 OLN0227 151D 302 110 368 0 1 0 0 0 000000001D 303 110 2 0 2 0 0 0LN0228 152D 304 100 370 0 1 0 0 0CR0109 153D 306 110		360	0	1	0	0	0	00000001D	295
110 362 0 1 0 0 0 0000000001D 297 110 2 0 2 0 0 0LN0225 149D 298 110 364 0 1 0 0 0LN0226 150D 300 110 2 0 2 0 0 0LN0226 150D 300 110 366 0 1 0 0 0LN0227 151D 302 110 368 0 1 0 0 0LN0227 151D 302 110 368 0 1 0 0 0LN0228 152D 304 100 370 0 1 0 0 0CR0109 153D 306 110 372 0 1 0 0 0CR0109 153D 306 110 2 0 2 0 0 0LN0229 154D 308			0	2	0	0	0LN0224	148D	296
110 2 0 2 0 0 0LN0225 149D 298 110 364 0 1 0 0 000000001D 299 110 2 0 2 0 0 0LN0226 150D 300 110 366 0 1 0 0 000000001D 301 110 4 7 2 0 0 0LN0227 151D 302 110 368 0 1 0 0 000000001D 303 110 2 0 2 0 0 0LN0228 152D 304 100 370 0 1 0 0 0CR0109 153D 306 110 372 0 1 0 0 0CR0109 153D 306 110 2 0 2 0 0 0LN0229 154D 308 100 374 <t< td=""><td>110</td><td>362</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>00000001D</td><td>297</td></t<>	110	362	0		0	0	0	00000001D	297
110 364 0 1 0 0 0 000000001D 299 110 2 0 2 0 0 0LN0226 150D 300 110 366 0 1 0 0 000000001D 301 110 4 7 2 0 0 0LN0227 151D 302 110 368 0 1 0 0 000000001D 303 110 2 0 2 0 0 0LN0228 152D 304 100 370 0 1 0 0 000000001D 305 100 4 7 2 0 0 0CR0109 153D 306 110 372 0 1 0 0 0CR0109 154D 308 100 374 0 1 0 0 0CR0110 155D 310 110 376			0	2	0	0	0LN0225	149D	298
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110 366 0 1 0 0 0 0000000001D 301 110 4 7 2 0 0 0LN0227 151D 302 110 368 0 1 0 0 0 000000001D 303 110 2 0 2 0 0 0LN0228 152D 304 100 370 0 1 0 0 0CR0109 153D 306 110 372 0 1 0 0 0CR0109 153D 306 110 372 0 1 0 0 0CR0109 153D 306 110 372 0 1 0 0 0CR0109 154D 308 100 374 0 1 0 0 0CR0110 155D 310 110 376 0 1 0 0 0CR0110 155D 312 110 378 0 1 0 0 0CR0110 157D <td< td=""><td></td><td></td><td>0</td><td></td><td>0</td><td>0</td><td>0LN0226</td><td>150D</td><td>300</td></td<>			0		0	0	0LN0226	150D	300
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			7	2	-		0CR0111		
	110	382	0				-		
	110	2	0	2	0	0	0LN0232	159D	318

			_	•	•	0	00000001D	319
100	384	0	1	. 0	0	0 0CR0112	160D	320
100	2	0	2 1	0 0	0	0	000000001D	321
100	386	0	2	0	ŏ	0CR0113	161D	322
100 100	2 388	0	1	ŏ	Ö	0	000010001D	323
100	2	0	2	Ö	Ō	0CR0114	162D	324
100	390	Ö	ī	Ö	0	0	000010001D	325
100	2	Ö	2	0	0	0CR0115	163D	326
100	392	0	1	0	0	0	000010001D	327
100	2	0	2	0	0	0CR0116	164D	328
100	394	0	1	Ō	0	0	00000001D	329 330
100	2	0	2	0	0	0CR0117	165D 000000001D	331
100	396	0	1	0	0	0	166D	332
100	2	0	2	0	0	0CR0118 0	000000001D	333
100	398	0	1	0	0	0CR0119	167D	334
100	2	0	2	0	. 0	0	000000001D	335
100	400	0 0	1 2	0	0	0CR0120	168D	336
100	2 402	0	1	Ö	ŏ	0	000000001D	337
100 100	2	0	2	Ŏ	Ö	0CR0121	169 D	338
100	404	ŏ	ī	Ö	Ö	0	00000001D	339
100	2	Ö	2	0	0	0CR0122	170D	340
100	406	0	1	0	0	0	00000001D	341
100	2	0	2	0	0	0CR0123	171D	342
100	408	0	1	0	0	0	00000001D	343
100	2	0	2	0	0	0CR0124	172D 000000001D	344 345
110	410	0	1	0	0	0 0LN0233	173D	346
110	4	7	2	0	0	0LN0233	000000001D	347
110	412	0 7	1 2	0	0	0LN0234	174D	348
110 100	4 414	ó	1	Ö	ŏ	0	000000001D	349
100	2	Ö	2	ŏ	. 0	0CR0125	175D	350
100	416	Ö	1	Ō	. 0	0	00000001D	351
100	2	0	2	0	0	0CR0126	176D	352
110	418	0	1	0	0	0	00000001D	353
110	4	7	2	0	0	0LN0235	177D	354
100	420	0	1	0	0	0	000000001D 178D	355 356
100	2 422	0	2	0	0	0CR0127 0	000000001D	350 357
100 100	2	0	1 2	0	0	0CR0128	179D	358
100	424	Ö	1	ŏ	ŏ	0	00000001D	359
100	2	Ŏ	2	Ö	Ö	0CR0129	180D	360
100	426	0	1	0	0	0	000000001D	361
100	2	0	2	0	0	0CR0130	181D	362
100	428	0	1	0	0	0	00000001D	363
100	2	0	2	0	0	0CR0131	182D	364
100	430	0	1	0	0	0	00000001D 183D	365 366
100 100	2 432	0 0	2 1	0 0	0 0	0CR0132 0	000000001D	367
100	432	0	2	0	0	0CR0133	184D	368
100	434	Ö	1	Ö	ŏ	0	000000001D	369
100	2	Ö	2	Ŏ	Ŏ	0CR0134	185D	370
100	436	Ö	1	Ō	0	0	00000001D	371
100	2	0	2	0	0	0CR0135	186D	372
100	438	0	1	0	0	0	00000001D	373
100	2	0	2	0	. 0	0CR0136	187D	374
100	440	0	1	0	0	0 .	00000001D	375
100	2	0	2	0	0	0CR0137	188D	376
100	442	0	1	0	0	0	00000001D	377
100 100	2 444	0	2 1	0	0 0	0CR0138 0	189D 000000001D	378 379
100	2	0	2	0	0	0CR0139	190D	379
100	446	0	1	0	0	0	000000001D	381
100	2	0	2	0	ŏ	0CR0140	191D	382
100	448	Ö	ī	ŏ	ŏ	0	00000001D	383
100	2	Ö	2	Ŏ	Ö	0CR0141	192D	384
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100	450	0	1	0	0	0	00000001D	385
100	2	0	2	0	σ	0CR0142	193D	386
100	452	0	1	0	0	0	00000001D	387
100	2	0	2	0	0	0CR0143	194D	388
100	454	0	1	0	0	0	000000001D	389
100	2	0	2	0	0	0CR0144	195D	390
100	456	0	1	0	0	0	00000001D	391
100	2	0	2	0	0	0CR0145	196D 000000001D	392 393
100	458 2	0	1 2	0	0	0 0CR0146	197D	394
100 100	460	0 0	1	0	0	000140	000000001D	395
100	2	0	2	0	Ö	0CR0147	198D	396
110	462	ŏ	1	Ö.	ŏ	0	00000001D	397
110	4	7	2	Ö	Ö	0LN0236	199D	398
100	464	0	1	Ö	0	0	00000001D	399
100	2	0	2	0	0	0CR0148	200D	400
100	466	0	1	0	0	0 .,	00000001D	401
100	4 -	7	2	Q	0	0CR0149	201D	402
212	468	0	0	0	0	0	000000101D	403
212	0	0	2	0	0	0TX0058	202D	404
212	470	0	0	0	0	0	000000101D	405
212	0	0	2	0	0	0TX0059	203D 00000001D	406
100	472	0	1	Ó	0	0		407
100	2	0	2	0	0	0CR0150 0	204D 000000001D	408 409
100	474 2	0 0	1 2	0 0	0	0CR0151	205D	410
100 100	476	0	1	O O	0	0	000000001D	411
100	2	Ö	2	0	Ö	0CR0152	206D	412
100	478	ŏ	ī	ŏ	ŏ	0	00000001D	413
100	2	Ö	2	Ö	Ö	0CR0153	207D	414
100	480	0	1	0	0	0	00000001D	415
100	2	0	2	0	0	0CR0154	208D	416
100	482	0	1	0	0	0	00000001D	417
100	2	0	2	0	0	0CR0155	209D	418
212	484	0	0	0	0	0	000000101D 210D	419 420
212 100	0 486	0 0	2 1	0 0	0	0TX0060 0	000000001D	421
100	2	0	2	0	0	0CR0156	211D	422
100	488	Ö	1	ŏ	Ö	0	000000001D	423
100	2	Ö	2	Ö	Ö	0CR0157	212D	424
110	490	Ö	2	0	0	0	00000001D	425
110	2	0	2	0	0	0LN0237	213D	426
100	492	0	1	0	0	0	00000001D	427
100	2	0	2	0	0	0CR0158	214D	428
100	494	0	1	0	0	0	00000001D	429
100	2	0	2	0	0	0CR0159 0	215D 000000001D	430 431
100 100	496 2	0 0	1 2	0 0	0	0CR0160	216D	432
100	498	0	1	0	Ö	0	000000001D	433
100	2	0	2	Ö	Ö	0CR0161	217D	434
100	500	ŏ	ĩ	ŏ	Ŏ	0	000000001D	435
100	2	Ŏ	2	Ö	Ö	0CR0162	218D	436
110	502	Ö	2	ā	Ö	0	00000001D	437
110	2	0	2	0	0	0LN0238	219D	438
110	504	0	2	0	0	0	00000001D	439
110	2	0	2	0	0	0LN0239	220D	440
110	506	0	2	O,	0	0	00000001D	441
110	2	0	2	0	0	0LN0240	221D	442
110	508	0	2	0	0	0	00000001D	443
110	2	0	2	0	0	0LN0241	222D	444
110	510	0	2	0	0	0 01 N0 242	00000001D	445
110	2 512	0	2	0	0	0LN0242 0	223D 000000001D	446 447
100 100	512 2	0 0	1 2	0 0	0	0CR0163	224D	447
100	514	0	1	0	0	000163	000000001D	449
100	2	0	2	0	0	0CR0164	225D	450 59
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100	516	0	1	0	0	0	00000001D	451
100	2	Ö	2	Ö	0	0CR0165	226D	452
100	518	Ŏ	1	Ö	Ö	0	00000001D	453
100	2	Ö	2	Ŏ	Ō	0CR0166	227D	454
100	520	Ō	1	0	0	0	00000001D	455
100	2	Ö	2	Ō	0	0CR0167	228D	456
100	522	ő	ī	Ŏ	Ö	0	000000001D	457
100	2	ő	2	Ö	0	0CR0168	229D	458
100	524	ő	1	Ö	Ŏ	0	000000001D	459
100	2	ő	2	Ŏ	Ō	0CR0169	230D	460
100	526	Ö	1	Ö	Ŏ	0	000000001D	461
100	2	Ö	2	Ŏ	Ö	0CR0170	231D	462
100	528	Ö	ī	Ö	Ö	0	00000001D	463
100	2	ŏ	2	Ô	Ö	0CR0171	232D	464
110	530	ő	2	Õ	Ö	0	00000001D	465
110	2	ő	2	Õ	Ö	0LN0243	233D	466
110	532	Ö	2	Õ	Ŏ	0	00000001D	467
110	2	ő	2	Õ	ŏ	0LN0244	234D	468
100	534	Ö	1	ň	ŏ	0	00000001D	469
100	4	7	2	Ô	Ö	0CR0172	235D	470
100	536	ó	1	Ö	ŏ	0	000000001D	471
100	2	0	2	Õ	ŏ	0CR0173	236D	472
110	538	Ö	1	0	ő	0	000000001D	473
110	4	7	2	0	ŏ	0LN0245	237D	474
110	540	ó	1	0	ő	0	000000001D	475
110	4	7	2	ő	ŏ	0LN0246	238D	476
212	542	ó	Õ	ŏ	Ŏ	0	000000101D	477
212	0	Ö	2	Õ	ñ	0TX0061	239D	478
110	544	ő	ī	Õ	Ŏ	0	000000001D	479
110	4	7	2	Õ	Ö	0LN0247	240D	480
212	546	0	Ō	Ö	Ö	0	000000101D	481
212	0	Ō	2	Ö	Ō	0TX0062	241D	482
100	548	Ö	ī	Ŏ	Ö	0	00000001D	483
100	4	7	2	0	0	0CR0174	242D	484
212	550	0	0	0	0	0	000000101D	485
212	0	0	2	0	0	OTX0063	243D	486
212	552	0	0	0	0	0	000000101D	487
212	0	0	2	0	0	OTX0064	244D	488
212	554	0	0	0	0	0	000000101D	489
212	0	0	2	0	0	0TX006 5	245D	490
212	556	0	0	0	0	0	000000101D	491
212	0	0	2	0	0	0TX0066	246D	492
212	558	0	0	0	0	0	000000101D	493
212	0	0	2	0	0	0TX0067	247D	494
212	560	0	0	0	0	0	000000101D	495
212 212	0	0	2	0	0	0TX0068	248D	496
212	562	0	0	0	0	0	000000101D	497
	0	0	2	0	0	0TX0069	249D	498
212 212	564	0	0	0	0	0	000000101D	499
212	0	0	2	0	0	0TX0070	250D	500
212	566	0	0	0	0	0	000000101D	501
212	0 568	0 0	2	0	0	0TX0071	251D	502
212	0	I	0	0	0	0	000000101D	503
212	570	0	2 0	0 0	0	0TX0072	252D	504
212	0	0	2	Ī	0	0 0TX0073	000000101D	505
212	572	Ö	0	0 0	0 0	0120073	253D	506
212	0	0	2	0	0	0TX0074	000000101D 254D	507 508
212	574	0	0	0	0	0170074	000000101D	509
212	0	Ö	2	0	0	0TX0075	255D	
212	576	0	0	0	0	0170073		510
212	0	0	2	0	0	0TX0076	000000101D 256D	511 512
212	578	0	0	0	0	0120076	000000101D	512 513
212	0	0	2	0	0	0TX0077	257D	513 514
212	580	0	0	0	0	0120077	000000101D	514 515
212	0	0	2	0	0	0TX0078	258D	515 516
	J	J	٠.		U	0170018	430 0	210

100	582	0	1	0	0	0	00000001D	517
100	2	0	2	0	0	0CR0175	259D	518
110	584	0	1	0	0	0 0LN0248	00000001D	519
110 100	2 586	0 0	2 1	0 0	0 0	0LN0248	260D 000000001D	520 521
100	2	Ö	2	Ö	Ö	0CR0176	261D	522
212	588	0	0	Ō	Ō	0	000000101D	523
212	0	0	2	0	0	0TX0079	26 2 D	524
110	590	0	2	0	0	0	00000001D	525
110 100	2 592	0	2 1	0	0	0LN0249	263D	526 527
100	2	0 0	2	0 0	0 0	0 0CR0177	000000001D 264D	527 528
212	59 4	Ö	Õ	ŏ	Ŏ	0	000000101D	529
212	0	0	3	0	0	0800XT0	265D	530
102	597	0	1	0	0	0	000010101D	531
102	0	0	2	0	0	0CC0001	266D	532
102 102	599 0	0 0	1 2	0 0	0 0	0 0CC0002	000010101D	533
230	601	0	1	0	0	0	267D 000000101D	534 535
230	0	ŏ	1	ő	Ö	0SA0001	268D	536
230	602	Ö	1	0.	Ö	0	000000101D	537
230	0	0	1	0	0	0SA0002	269D	538
230	603	0	1	0	0	0	000000101D	539
230	0	0	1	0	0	0SA0003	270D	540
230 230	604 0	0 0	1 1	0 0	0	0 0\$A0004	000000101D 271D	541 542
230	605	0	1	Ö	0	0320004	000000101D	543
230	0	Ö	1	Ö	Ö	0SA0005	272D	544
410,1,1.0,0		,0,0,0;					1P	1
406,2,8.0,1		1 2.					3P	2
404,1,1,0.0			999672	17E-01.1.	1.570796	48972.0.0.	5P 7P	3 4
0,0,3.98648						103,2,0.0,	7P	5
110,3.13979	3396,7.6	3025188446	,0.0,3	.96217767	08,6.419	69013214,	9P	6
0.0,0,0;	12206 7 6	2025100446	003	26575740	424 7 40	001760000	9P 11P	7
110,3.13979 0.0,0,0;	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3023188448	,0.0,3	.203/3/49	424, 1.49	021/02393,	11P 11P	8 9
110,3.13979	3396,7.6	3025188446	,0.0,3	.21612670	173,7.46	450138993,	13P	10
0.0,0,0;						·	13P	11
110,3.26575			93,0.0	,3.216126	70173,		15P	12
7.464501389			000670	170 01 1	1 570706	40070 0 0	15P	13
212,1,7,0.3 0,0,2.91526						489/2,0.0,	17P 17P	14 15
110,2.95098							19P	16
6.195483207			.,	,			19P	17
110,2.95098			57,0.0	,2.971048	36143,		21P	18
7.104973044							21P	19
110,2.95098			57,0.0	,2.911138	96784,		23P 23P	20 21
7.108269187			26.0.0	.2.911138	96784.		25P 25P	22
7.108269187			20,0.0	, 2 . 3 1 1 1 3 0	307017		25P	23
110,3.22573			82,0.0	,3.463209	86732,		27P	24
8.284575279							27P	25
110,3.22573			82,0.0	,3.995146	97784,		29P	26
8.340008455 110,3.46320			92 0 0	4 130370	2345		29P 31P	27 28
8.163104753			32,0.0	,4.130370	2343,		31P	29
110,3.99514			38,0.0	,4.130370	2345,		33P	30
8.163104753	03,0.0,0,	0;					33P	31
110,4.13037			3,0.0,	5.0863789	2039,		35P	32
8.620074878			46 0 0	4 000044	65756		35P	33
110,5.10599 7.864558601			±0,0.0,	,4.898341	03/30,		37P 37P	34 35
110,5.10599			46,0.0	.4.601858	26193.		37P 39P	35 36
7.732791965			,	, =	_ ,_,,		39P	37
112,3,1,2,1			5,2.81	060871347	,0.51435	2604635,	41P	38

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                                                                         41P
                                                                                 42
-0.271523249759E-01,8.38103818385,0.353059092907,
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0.11684643206,0.0,8.48009536082,0.603137803668,
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0.557665023012,0.405813877033E-01,0.0,8.75829668019,
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0.200957753436,-0.772435659376E-01,0.0,0.0,0.0,0.0,0.0,0.0,0;
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112,3,1,2,1,0.0,0.93414422702,3.7938613754,0.550449517515,
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                                                                         45P
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0.463479917274,-0.213538068179,8.62262887343,0.906232049983,
                                                                         45P
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-0.601583445657, 0.272083906776, 0.0, 0.0, 0.0, 0.0, 4.53843771213,\\
                                                                                 52
0.800886166798, -0.117757437549, -0.174067267614, 9.16601467133,\\
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45P
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112,3,1,2,1,0.0,0.800012319783,3.7938613754,0.964069858511,
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                                                                         47P
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0.616490830366,0.188028371657,0.0,0.0,0.0,0.0,0.0,0.0;
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8.62262887343, -1.05933637228, 1.67999739109, -0.637201343021,\\
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                                                                         51P
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0.259915847787,-0.511898309345E-01,6.61438144203,
0.849039821024, -0.137739589024, 0.206399675294E-01, 0.0, 0.0, 0.0,
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                                                                         55P
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0.180085629750E-01,0.258615405360E-02,0.0,0.0,0.0,0.0,0.0;
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                                                                                 84
0.152619289395E-02,-0.505298405105E-02,7.64359930503,
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7.28678579574,0.0,0,0;
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Ο,
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0,
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0;
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                                                                                  123
0,
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                                                                                  124
0,
                                                                          87P
                                                                                  125
0:
124,0.822707872394,0.568464384725,0.0,3.95000949597,
                                                                          89P
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                                                                          89P
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                                                                          95P
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                                                                                187
7.83487223022,0.0,0,0;
                                                                        143P
                                                                                188
110,3.61323663282,7.83487223022,0.0,3.63419635854,
                                                                        143P
                                                                                189
7.80181971906,0.0,0,0;
110,3.58846120814,7.85853390854,0.0,3.61323663282,
                                                                        145P
                                                                                190
                                                                                191
                                                                        145P
7.83487223022,0.0,0,0;
                                                                                192
                                                                        147P
110,3.44655848055,7.9032114258,0.0,3.64863928831,
                                                                                193
                                                                        147P
7.98769935274,0.0,0,0;
                                                                        149P
                                                                                194
100,0.0,3.79164605621,7.98614574695,3.64863928831,
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                                                                        149P
7.98769935274,3.68781308514,7.88779909741,0,0;
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                                                                        151P
110,3.51737299954,7.8322805079,0.0,3.58846120814,
                                                                                197
                                                                        151P
7.85853390854,0.0,0,0;
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                                                                        153P
110,3.50974491599,7.80075221456,0.0,3.51660449459,
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                                                                        153P
7.83301446573,0.0,0,0;
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                                                                        155P
124,-0.822707872405,0.568464384709,0.0,3.95000949597,
                                                                                201
0.568464384709,0.822707872405,0.0,7.07740599738,0.0,0.0,-1.0,
                                                                        155P
                                                                                202
                                                                        155P
                                                                        157P
                                                                                203
104,2.45896973342,0.0,0.541030266577,0.0,0.0,
                                                                        157P
                                                                                204
-0.420764657030E-02,0.0,-0.488729111784E-02,
-0.875702038597E-01,0.389627241056E-01,-0.296209303115E-01,0,
                                                                        157P
                                                                                205
                                                                        157P
                                                                                206
0:
                                                                        159P
                                                                                207
110,3.56074136658,7.75989646145,0.0,3.56391021322,
                                                                        159P
                                                                                208
7.77480031082,0.0,0,0;
                                                                                209
110,3.5429504875,7.80785282197,0.0,3.56391021322,
                                                                        161P
                                                                        161P
                                                                                210
7.77480031082,0.0,0,0;
                                                                                211
110,3.56074136658,7.75989646145,0.0,3.50974491599,
                                                                        163P
                                                                                212
                                                                        163P
7.80075221456,0.0,0,0;
                                                                        165P
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110,3.6310275119,7.78691586969,0.0,3.63419635854,
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                                                                        165P
7.80181971906,0.0,0,0;
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                                                                        167P
110,3.56074136658,7.75989646145,0.0,3.6310275119,
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                                                                        167P
7.78691586969,0.0,0,0;
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110,3.51660449459,7.83301446573,0.0,3.5429504875,
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                                                                        169P
7.80785282197,0.0,0,0;
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110,3.43848054238,7.7494813944,0.0,3.50351606543,
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                                                                        171P
7.77779989847,0.0,0,0;
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100,0.0,4.13267516977,7.81466063885,3.43370182056,
                                                                        173P
                                                                        173P
                                                                                 222
7.92044347105,3.49268150104,7.51439100256,0,0;
                                                                        175P
                                                                                 223
100,0.0,4.06672543897,7.69522832406,3.26049186278,
                                                                        175P
                                                                                 224
7.84802615234,3.28991368897,7.43079825623,0,0;
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110,3.21789628276,7.70232322644,0.0,3.21514800111,
                                                                        177P
                                                                                 226
                                                                        177P
7.66175689384,0.0,0,0;
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                                                                        179P
110,3.13908420749,7.75972706862,0.0,3.21789628276,
                                                                        179P
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7.70232322644,0.0,0,0;
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110,3.13908420749,7.75972706862,0.0,3.14293088214,
                                                                        181P
                                                                                 230
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7.73443788188,0.0,0,0;
110,3.14293088214,7.73443788188,0.0,3.15515681409,
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                                                                                 231
                                                                                 232
                                                                        183P
7.70789590155,0.0,0,0;
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110,3.15515681409,7.70789590155,0.0,3.21530576581,
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                                                                        185P
7.66408559811,0.0,0,0;
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110,2.98904985523,7.67129767228,0.0,3.00127578718,
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7.64475569194,0.0,0,0;
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100,0.0,3.44870295285,7.49013625251,3.22594826788,
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7.33617449086,3.35462033211,7.23622222335,0,0;
                                                                        189P
110,3.35462033211,7.23622222335,0.0,3.80689330111,
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                                                                        191P
                                                                         191P
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7.42531294398,0.0,0,0;
112,3,1,2,1,0.0,0.566967445147,3.35844725991,0.896023700235,
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                                                                                 241
0.189061626394E-01,-0.505639148805E-02,7.16184893794,
                                                                        193P
                                                                                 242
0.430469723276,-0.100897997044E-01,0.120118614437E-02,0.0,0.0,
                                                                                 243
                                                                        193P
0.0,0.0,3.87161941156,0.517406493338,0.331279984627E-02,
                                                                         193P
                                                                                 244
-0.921541843963E-03,7.40288678964,0.238232303792,
                                                                        193P
                                                                                 245
-0.258662828585E-02,0.218919618278E-03,0.0,0.0,0.0,0.0,0.0,0,0;
                                                                        193P
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110,3.72106974823,7.53865353232,0.0,3.83915311129,
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                                                                        195P
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7.41845353075,0.0,0,0;
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110,3.85125966664,7.42464415858,0.0,3.94934753956,
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                                                                        197P
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7.31982290233,0.0,0,0;
100,0.0,3.86003,7.42542,3.87130,7.44433,3.83915,
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                                                                                 251
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                                                                        199P
7.41845,0,0;
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                                                                        201P
110,3.95698275944,7.28491912962,0.0,3.9660157186,
                                                                        201P
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7.31469474646,0.0,0,0;
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110,3.94305108978,7.08883230568,0.0,4.0000202755,
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                                                                        203P
7.24875144207,0.0,0,0;
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104,2.45896973343,0.0,0.541030266572,0.0,0.0,
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-0.168305862822E-01,0.0,-0.977458223411E-02,-0.175140407723,
                                                                        205P
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0.744538135736E-01,0.769019752249E-01,0,0;
                                                                        205P
110,3.94562263552,6.88529094846,0.0,3.85849003761,
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                                                                        207P
                                                                        207P
                                                                                 261
6.9277601033,0.0,0,0;
100,0.0,3.92411966591,7.0854407431,3.90581867241,
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                                                                        209P
                                                                        209P
                                                                                 263
7.09135472175,3.94305108978,7.08883230568,0,0;
                                                                        211P
                                                                                 264
0,
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                                                                        211P
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110,4.03398901889,7.25798734429,0.0,4.0254312987,
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                                                                                 267
7.23519035191,0.0,0,0;
                                                                        213P
                                                                                 268
                                                                        215P
110, 4.0451687493, 7.22549365752, 0.0, 4.13230134722,
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                                                                        215P
7.18302450269,0.0,0,0;
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                                                                        217P
110,4.0000202755,7.24875144207,0.0,4.02518272537,
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7.23272876551,0.0,0,0;
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100,0.0,3.98286,7.19347,4.00002,7.24875,3.94921,
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7.24056,0,0;
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100,0.0,3.99344,7.22586,4.03399,7.25799,3.96946,
                                                                         221P
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7.27171,0,0;
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110, 4.07677224176, 7.37196531398, 0.0, 4.05098529205,
                                                                         223P
                                                                                 277
                                                                         223P
7.29763238281,0.0,0,0;
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                                                                        225P
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7.31469,0,0;
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                                                                                 281
                                                                         227P
7.28476,0,0;
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                                                                         229P
                                                                                 282
                                                                         229P
                                                                                 283
7.31982,0,0;
                                                                        231P
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110,4.01902893587,7.48574291856,0.0,4.0609114388,
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                                                                        231P
7.48290546921,0.0,0,0;
110,3.8841884276,7.46215355187,0.0,3.98787037609,
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                                                                        233P
                                                                         233P
                                                                                 287
7.50889366307,0.0,0,0;
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                                                                         235P
110,3.98325607226,7.54426773316,0.0,3.88608011562,
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                                                                        235P
7.49007603416,0.0,0,0;
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110,3.98384175892,7.65643306664,0.0,3.8730658563,
                                                                        237P
                                                                                 291
                                                                        237P
7.50498181613,0.0,0,0;
110,3.99962157337,7.61328683199,0.0,3.88221575107,
                                                                        239P
                                                                                 292
                                                                                 293
                                                                        239P
7.50202499018,0.0,0,0;
110,6.4,2.73753929138,0.0,0.6,2.73753929138,0.0,0,0;
                                                                        241P
                                                                                 294
                                                                                 295
                                                                        243P
110,6.4,1.63753986359,0.0,6.4,2.73753929138,0.0,0,0;
                                                                                 296
                                                                        245P
110,0.6,2.46003929138,0.0,6.4,2.46003929138,0.0,0,0;
110,5.4,1.63753986359,0.0,5.4,2.46003929138,0.0,0,0;
                                                                        247P
                                                                                 297
                                                                                 298
110,0.6,2.21953929138,0.0,6.4,2.21953929138,0.0,0,0;
                                                                        249P
110,2.1,1.63753986359,0.0,2.1,2.46003929138,0.0,0,0;
                                                                        251P
                                                                                 299
                                                                                 300
                                                                        253P
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                                                                                 301
110,0.6,2.73753929138,0.0,0.6,1.63753986359,0.0,0,0;
                                                                         255P
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212,1,3,0.167733333333,0.737499967217E-01,1,1.57079648972,0.0,
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257P
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0,0,5.80224479251,2.30822540447,0.0,3HBUS,0,0;
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212,1,37,3.13194430967,0.972222205665E-01,1,1.57079648972,0.0,
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0,0,1.93479881667,2.5579686703,0.0,37HESSENTIAL CIRCUIT BREAKER
                                                                        259P
                                                                                306
                                                                        259P
PANEL NO. 1,0,0;
                                                                                307
212,1,12,0.670833333333,0.737499967217E-01,1,1.57079648972,
                                                                        261P
                                                                        261P
                                                                                308
0.0,0,0,3.44232238346,2.30822254345,0.0,12HNOMENCLATURE,0,0;
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212,1,7,0.391377777778,0.737499967217E-01,1,1.57079648972,0.0,
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                                                                        263P
0,0,0.910783360534,2.30822635815,0.0,7HREF DES,0,0;
212,1,4,0.223644444444,0.737499967217E-01,1,1.57079648972,0.0,
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                                                                        265P
                                                                        265P
                                                                                312
0,0,1.72757781559,2.30822540447,0.0,4HZONE,0,0;
                                                                        267P
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212,1,8,0.753955526416,0.972222205665E-01,1,1.57079648972,0.0,
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                                                                        267P
0,0,0.695005950663,2.55797248499,0.0,8H52Z-C007,0,0;
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                                                                        269P
212,3,13,0.726744444444,0.737499967217E-01,1,1.57079648972,
                                                                        269P
                                                                                 316
0.0,0,0,2.23292983585,2.05118633434,0.0,13HR MLG WOW PWR,13,
                                                                        269P
                                                                                317
0.726744444444,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        269P
                                                                                318
2.23292983585,1.91229744545,0.0,13HL MLG WOW PWR,14,
0.78275555556,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        269P
                                                                                 319
                                                                        269P
                                                                                 320
2.23292983585,1.77340855656,0.0,14HLDG GR POS IND,0,0;
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                                                                        271P
                                                                                 321
                                                                        273P
                                                                                 322
212,3,2,0.111822222222,0.737499967217E-01,1,1.57079648972,
                                                                                 323
                                                                        273P
0.0,0,0,1.77439464145,2.05118633434,0.0,2HL1,2,
0.111822222222,0.737499967217E-01,1,1.57079648972,0.0,0,0,
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                                                                                 324
                                                                        273P
                                                                                 325
1.77439464145,1.91229744545,0.0,2HM1,2,0.111822222222,
                                                                        273P
                                                                                 326
0.737499967217E-01,1,1.57079648972,0.0,0,0,1.77439464145,
                                                                        273P
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1.77340855656,0.0,2HN1,0,0;
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212,3,8,0.447288888889,0.737499967217E-01,1,1.57079648972,0.0,
                                                                        275P
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0,0,0.851796756321,2.05118633434,0.0,8H41CBC033,8,
                                                                                330
                                                                        275P
0.447288888889,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        275P
                                                                                 331
0.851796756321,1.91229744545,0.0,8H41CBC034,8,0.447288888889,
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0.737499967217E-01,1,1.57079648972,0.0,0,0.851796756321,
                                                                        275P
                                                                        275P
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1.77340855656,0.0,8H42CBC005,0,0;
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                                                                        277P
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0,0,4.99522365146,2.05118633434,0.0,5H28VDC,5,0.27965555556,
                                                                        277P
                                                                                 335
                                                                                 336
                                                                        277P
0.737499967217E-01, 1, 1.57079648972, 0.0, 0, 0, 4.99522365146,
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                                                                        277P
                                                                                 337
1,1.57079648972,0.0,0,0,4.99522365146,1.77340855656,0.0,5H28VDC,
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                                                                                 338
                                                                        277P
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0,0;
212,3,9,0.5031,0.737499967217E-01,1,1.57079648972,0.0,0,0,
                                                                        279P
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5.64113391452,2.05118633434,0.0,9HESS 28VDC,9,0.5031,
                                                                        279P
                                                                                 341
                                                                        279P
                                                                                 342
0.737499967217E-01,1,1.57079648972,0.0,0,0,5.64113391452,
                                                                        279P
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1.91229744545,0.0,9HESS 28VDC,9,0.5031,0.737499967217E-01,1,
                                                                        279P
1.57079648972,0.0,0,0,5.64113391452,1.77340855656,0.0,9HESS 28VD
                                                                                 344
                                                                        279P
                                                                                 345
C,0,0;
                                                                        281P
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212,1,10,0.5590111111111,0.737499967217E-01,1,1.57079648972,
0.0,0,0,5.62985862308,2.56970764324,0.0,10H(24-50-12),0,0;
                                                                        281P
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110, 4.70588709214, 5.27583267886, 0.0, 4.87115087145,
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                                                                        283P
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5.59221722308,0.0,0,0;
110,4.87796913147,5.65999675751,0.0,4.87796913147,
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5.61999675751,0.0,0,0;
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                                                                        287P
100,0.0,4.81797,5.62000,4.87115,5.59222,4.87797,
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5.62000,0,0;
                                                                        287P
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110,4.87796913147,5.65999675751,0.0,2.30484413147,
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                                                                                 354
                                                                        289P
5.65999675751,0.0,0,0;
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110,4.80796913147,5.25999675751,0.0,4.80796913147,
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5.04999675751,0.0,0,0;
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110,4.72796913147,5.30999675751,0.0,4.80796913147,
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                                                                                358
5.30999675751,0.0,0,0;
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110,4.72796913147,5.25999675751,0.0,4.80796913147,
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5.25999675751,0.0,0,0;
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110, 4.72796913147, 5.3181070113, 0.0, 4.72796913147,
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                                                                                362
5.01499675751,0.0,0,0;
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110,4.80796913147,5.04999675751,0.0,4.72796913147,
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                                                                                364
5.04999675751,0.0,0,0;
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110, 4.69796913147, 5.24229165919, 0.0, 4.69796913147,
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4.07333267886,0.0,0,0;
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110, 4.69796913147, 4.94333267886, 0.0, 2.31796913147,
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303P
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4.94333267886,0.0,0,0;
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                                                                                 370
                                                                                 371
5.24229,0,0;
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110, 4.70296913147, 4.98999675751, 0.0, 4.69796913147,
                                                                         307P
                                                                                 372
                                                                         307P
                                                                                 373
4.98999675751,0.0,0,0;
                                                                         309P
                                                                                 374
100,0.0,4.70297,5.01500,4.70297,4.99000,4.72797,
                                                                         309P
                                                                                 375
5.01500,0,0;
110,2.31796913147,5.25583267886,0.0,4.69920165363,
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                                                                                 376
                                                                                 377
                                                                         311P
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                                                                         313P
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4.96333267886,0.0,0,0;
                                                                         315P
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100,0.0,2.29797,5.25583,2.29797,5.23583,2.29797,
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5.27583,0,0;
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                                                                         317P
                                                                         317P
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5.47126073709,0.0,0,0;
100,0.0,4.40119134108,5.41365748358,4.44919134108,
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                                                                         319P
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5.41365748358,4.44919134108,5.41365748358,0,0;
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100,0.0,4.26096118325,5.41365748358,4.30896118325,
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5.41365748358,4.30896118325,5.41365748358,0,0;
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100,0.0,4.12073102542,5.41365748358,4.16873102542,
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5.41365748358, 4.16873102542, 5.41365748358, 0, 0;
100,0.0,3.98050086759,5.41365748358,4.02850086759,
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5.41365748358, 4.02850086759, 5.41365748358, 0, 0;
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                                                                         327P
5.41365748358,3.88827070976,5.41365748358,0,0;
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100,0.0,3.70004055193,5.41365748358,3.74804055193,
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5.41365748358,3.74804055193,5.41365748358,0,0;
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100,0.0,3.5598103941,5.41365748358,3.6078103941,5.41365748358,
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3.6078103941, 5.41365748358, 0, 0;
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                                                                         333P
100,0.0,3.41958023627,5.41365748358,3.46758023627,
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100,0.0,3.13911992062,5.41365748358,3.18711992062,
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100,0.0,2.99888976279,5.41365748358,3.04688976279,
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2.6261992893, 5.41365748358, 0, 0;
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                                                                         347P
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4.07333267886,0.0,0,0;
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                                                                         357P
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                                                                                 434 7.7
                                                                         369P
100,0.0,4.19084610434,4.45833267886,4.23884610434,
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                                                                         387P
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3.1170048417,4.22333267886,0,0;
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                                                                         397P
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4.12021,0,0;
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                                                                                 471
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4.45833267886, 2.41585405256, 4.45833267886, 0, 0;
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4.45833267886,2.69631436821,4.45833267886,0,0;
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100,0.0,2.78854452604,4.45833267886,2.83654452604,
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4.45833267886,2.55608421038,4.45833267886,0,0;
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                                                                                 486
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4.69333267886, 2.69631436821, 4.69333267886, 0, 0;
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                                                                         427P
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                                                                         431P
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                                                                                565
                                                                        499P
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                        501P
                                                                                566
```

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567
0.0,0,0,4.36377429962,5.71786238129,0.0,1HQ,0,0;
                                                                        501P
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                                568
                                                                        503P
                                                                                569
                                                                        503P
0.0,0,0,4.22354412079,5.71786238129,0.0,1HP,0,0;
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                                570
                                                                        505P
                                                                        505P
                                                                                571
0.0,0,0,4.08331394196,5.71786238129,0.0,1HN,0,0;
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                        507P
                                                                                572
                                                                                573
0.0,0,0,3.94308376312,5.71786238129,0.0,1HM,0,0;
                                                                        507P
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                                574
                                                                        509P
                                                                                 575
0.0,0,0,3.80285358429,5.71786238129,0.0,1HL,0,0;
                                                                        509P
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                                 576
                                                                        511P
                                                                                 577
                                                                        511P
0.0,0,0,3.66262340546,5.71786238129,0.0,1HK,0,0;
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
                                                                                 578
                                                                        513P
                                                                                 579
0.0,0,0,3.52239322662,5.71786238129,0.0,1HJ,0,0;
                                                                        513P
212,1,1,0.71900000000E-01,0.901388848821E-01,1,1.57079648972,
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                                                                        515P
                                                                        515P
                                                                                 581
0.0,0,0,3.38216304779,5.71786238129,0.0,1HH,0,0;
                                                                                 582
                                                                        517P
100,0.0,3.91038578868,4.69333267886,3.95838578868,
                                                                        517P
                                                                                 583
4.69333267886,3.95838578868,4.69333267886,0,0;
                                                                                 584
                                                                        519P
110,4.36784302635,4.4891904988,0.0,4.43430949798,
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                                                                        519P
4.54497485892,0.0,0,0;
                                                                                 586
100,0.0,4.47130641999,4.22333267886,4.51930641999,
                                                                        521P
                                                                         521P
                                                                                 587
4.22333267886,4.51930641999,4.22333267886,0,0;
212,1,8,0.759000026226,0.901388848821E-01,1,1.57079648972,0.0,
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                                                                        523P
                                                                                 589
                                                                         523P
0,0,3.13067740507,3.78854490692,0.0,8H52Z-C007,0,0;
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                                                                         525P
110,3.55164672388,5.05228199717,0.0,3.49785898542,
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                                                                         525P
4.74063336055,0.0,0,0;
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100,0.0,3.48969531519,4.69333267886,3.53769531519,
                                                                         527P
                                                                                 593
                                                                         527P
4.69333267886,3.53769531519,4.69333267886,0,0;
                                                                                 594
                                                                         529P
212,1,48,2.853333333333,0.737566644812E-01,1,1.57079648972,
0.0,0,0,3.4963709259,0.179828651249,0.0,48HCALS Test Network LGT
                                                                                 595
                                                                         529P
                                                                                 596
                                                                         529P
ABLE Reference Illustration, 0, 0;
                                                                         531P
                                                                                 597
102,3,21,23,
                                                                                 598
                                                                         531P
25,0,0;
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                                                                         533P
102,3,11,13,
                                                                         533P
                                                                                 600
15,0,0;
                                                                                 601
                                                                         535P
230,327,1,3.84,5.41,0.0,0.005,0.7854,0,0,0;
                                                                                 602
                                                                         537P
230,325,1,3.98,5.41,0.0,0.005,0.7854,0,0,0;
                                                                         539P
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230,323,1,4.12,5.41,0.0,0.005,0.7854,0,0,0;
                                                                                 604
                                                                         541P
230,531,1,2.91,7.11,0.0,0.005,0.7854,0,0,0;
                                                                                 605
                                                                         543P
230,533,1,3.22,7.46,0.0,0.005,0.7854,0,0,0;
                                                                                   1
                      544P
                4D
        8G
```

Attachment J

IENTITY Entity Listing and Count

** Entity Occurrence Counts **

Entity	Form	Level	Count	Type
				
0	0	0	37	Null entity
100	0	0	3	Circular arc
102	0	0	2	Composite curve
104	0	0	1	Conic arc - general form
104	1	0	1	Conic arc - ellipse
104	2	0	1	Conic arc - hyperbola
104	3	0	1	Conic arc - parabola
106	11	0	1	Copious data - Piecewise planar, linear string
106	63	0	1	Simple closed area
110	0	0	27	Line
112	0	0	2	Parametric spline curve
124	0	0	5	Transformation matrix
126	0	0	1	Rational B-spline curve
126	1	0	1	Rational B-spline curve - Line
126	2	0	1	Rational B-spline curve - Circular arc
126	3	0	1	Rational B-spline curve - Elliptical arc
126	4	0	1	Rational B-spline curve - Parabolic arc
126	5	0	1	Rational B-spline curve - Hyperbolic arc
212	0	0	39	General note
212	1	0	1	General note - dual stack dimension
212	2	0	1	General note - imbedded font change dimension
212	3	0	1	General note - superscripted dimension
212	4	0	1	General note - subscripted dimension
212	5	0	1	General note - super-/sub-scripted dimension
212	6	0	1	General note - multiple stack/left justified
212	7	0	1	General note - multiple stack/center justified
212	. 8	0	1	General note - multiple stack/right justified
212	100	0	1	General note - simple fractional dimension
212	101	0	1	General note - dual stack fractional dimension
212	102	0	1	General note - imbedded font change/double frac
212	105	0	1	General note - super-/sub-scripted fractional
230	0	0	1	Sectioned area
308	0	0	1	Subfigure definition
404	0	0	1	Drawing
406	16	0	1	Property - Drawing size
406	18	0	1	Intercharacter Spacing
408	0	0	1	Single subfigure instance
410	0	0	1	View - Orthographic parallel
412	0	0	1	Rectangular subfigure instance
414	0	0	1	Circular subfigure instance

Attachment K

LGTABLE Entity Listing and Count

** Entity Occurrence Counts **

Entity	Form	Level	Count	Туре
				*** *** ***
0	0	0	4	Null entity
100	0	0	85	Circular arc
102	0	0	2	Composite curve
104	0	0	5	Conic arc - general form
110	0	0	116	Line
112	0	0	12	Parametric spline curve
124	0	0	3	Transformation matrix
212	0	0	37	General note
230	0	0	5	Sectioned area
404	0	0	1	Drawing
406	16	0	1	Property - Drawing size
410	0	0	1	View - Orthographic parallel